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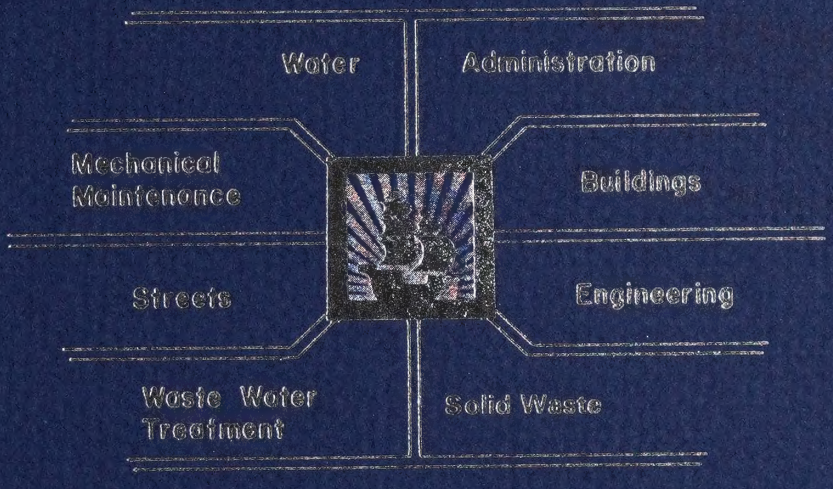
1990-91

Department of Public Works



1990-91 Annual Report

City of Santa Maria

110 EAST COOK STREET SANTA MARIA, CALIFORNIA 93454-5190 805-925-0951

February 3, 1992

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Janet Kalland

(Mrs.) JANET KALLAND
City Clerk

JK/fs

cc/w encl: Ms. Dorothy V. Wells
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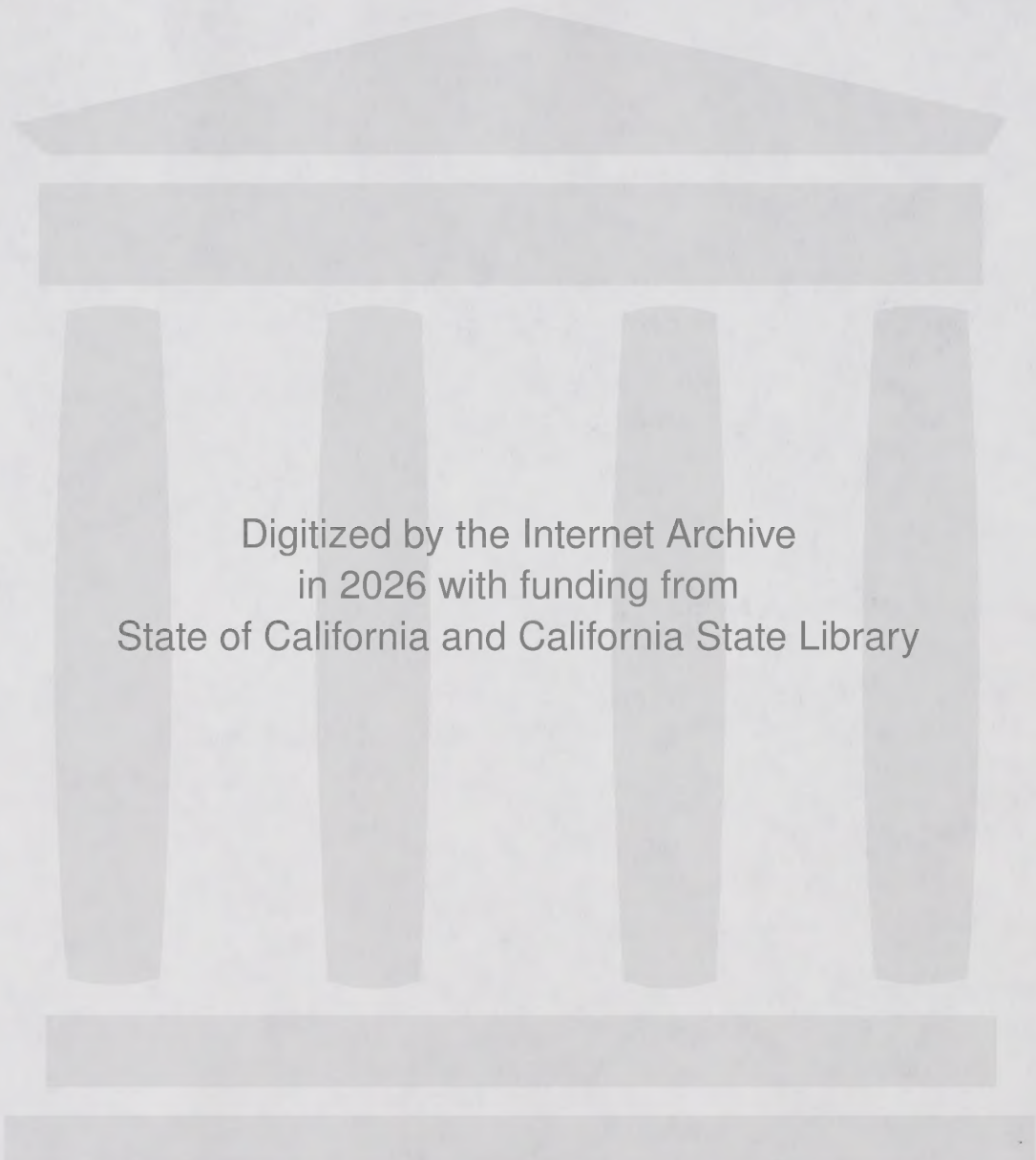

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Department of Public Works

December 30, 1991

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UNIVERSITY OF CALIFORNIA

Mr. Wayne A. Schwammel
City Administrator
City of Santa Maria
110 East Cook Street
Santa Maria, CA 93454-5190

Dear Wayne:

Transmitted herewith is this department's 1990-91 fiscal year report, which is the 21st, in keeping with our established tradition of this department. Contained in this report for recordation are the significant departmental activities which have occurred during this time period.

We have attempted to include in this report material of statistical and historical value, as well as information of personal interest.

It is appropriate here to express our appreciation to the rest of the City staff for the cooperation and assistance which contributed to our departmental accomplishments. We are even more grateful for the understanding received for our failures. We look forward to the continuing opportunity to make a contribution toward the total City government's service to its community.

Very truly yours,

Reese N. Riddiough

REESE N. RIDDIOUGH, P.E.
Director of Public Works

Attachment

FAX: Administration (805) 349-0657 Community Development (805) 928-7565 Public Works (805) 928-6632

A Ø183
1990/1991

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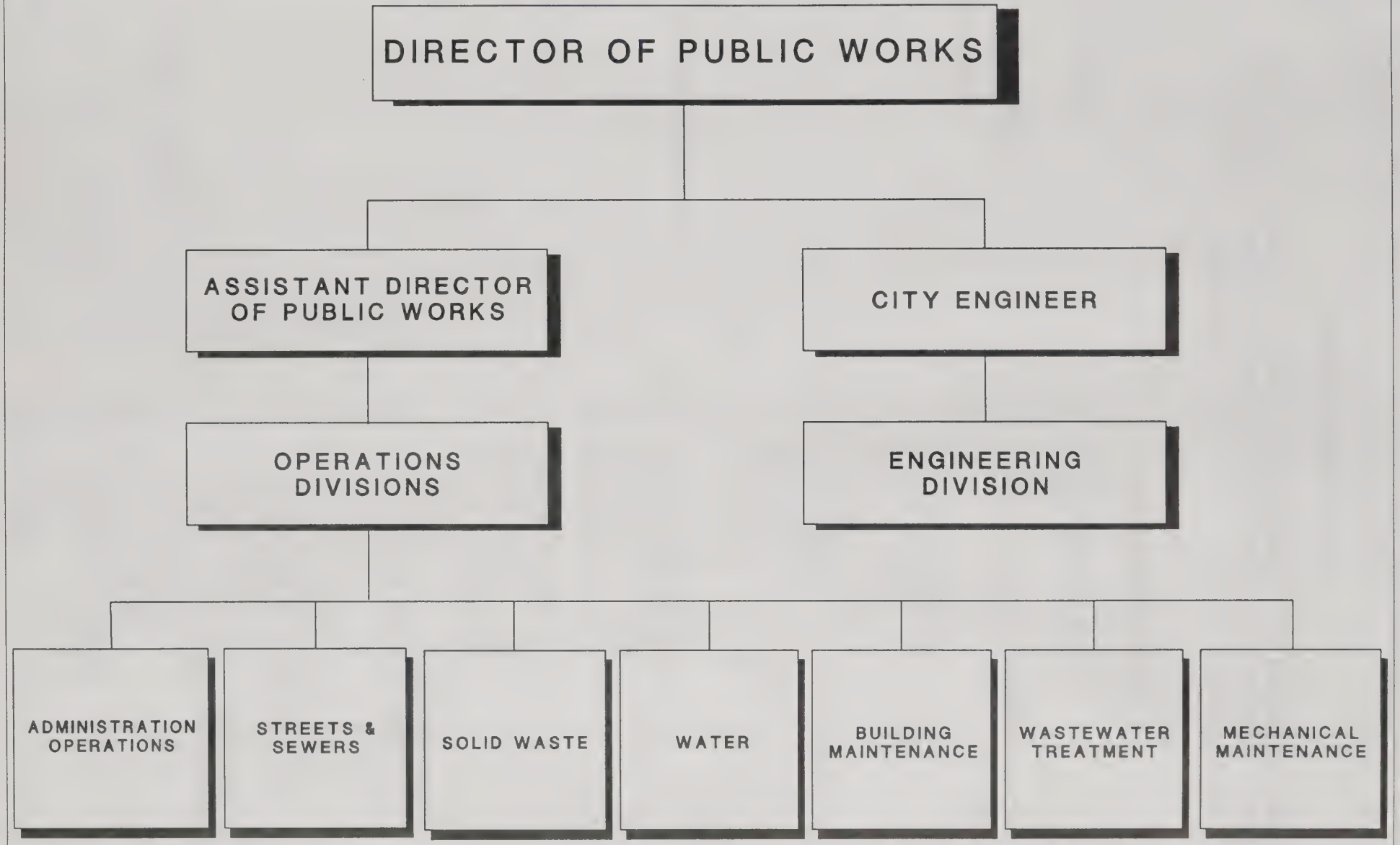
FIGURE 1

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
ORGANIZATION CHART 1990-1991



DIVISION ACTIVITIES

The thirty-eight functional activities of the department are assigned to one of eight divisions. Highlights of the past year regarding each of these divisions are summarized in this report.

Division	Functional Activities
Administration	1. Director/Assistant Director 2. Secretary and Clerical
Building Maintenance	3. Maintenance and Modification
Engineering	4. Design 5. Contract Administration (including SMAT) 6. Advance Planning 7. Traffic 8. Graphics and Records 9. Private Development 10. R/W Property 11. Engineering Information 12. Drainage 13. EIR Information Reports
Mechanical Maintenance	14. Operator Training 15. Maintenance and Repair 16. Preventive Maintenance 17. Dispatching 18. Parts and Records
Solid Waste	19. Container Collection 20. Can Collection 21. Disposal Fee Collection 22. Landfill Operation
Street & Sewer	23. Asphalt, P.C. Concrete Maintenance 24. Traffic Striping, Stencil Painting 25. Sweeping 26. Signing 27. Parking - Streets and Lots 28. Street Lights, Signals and Electric 29. Grading Alleys and Drainage Ditches 30. Weed Abatement 31. Maintain Sewer Lines 32. Stowell and Santa Maria Town Centers
Wastewater Treatment	33. WWTP Operations 34. WWTP Laboratory 35. Lift Stations 36. Industrial Source Control
Water	37. Production 38. Distribution

ADMINISTRATION DIVISION

This division, comprised of six full-time employees and one permanent part-time employee, is the smallest in the department. The role of the Administration Division is an important part to the success of each program and service provided by the department.

The primary function of this division is to provide the administrative direction and clerical support for all activities of the Public Works Department, including coordination of program planning, budget preparation and control, personnel administration, supervisory training for clerical staff, administrative reports, records management program, investigation and follow up of citizen concerns, word processing, and providing continuity of division activities.

This division consolidates input necessary to make final recommendations with regard to program planning. The division determines which new or additional projects/services should be initiated and when they should be implemented in order to submit fiscal budget requests at the appropriate time. Fifteen departmental budget requests and four (4) year capital improvement budgets, are reviewed for accuracy and timely completion.

During the past fiscal year, administration has recruited for, scheduled interviews, and processed part-time positions in the Building Maintenance, Streets, Solid Waste and Water Divisions. Payroll changes were processed for 134 full and part time employees who worked in the Public Works Department during the year. This division also conducted a few employee disciplinary action hearings for various employees within Public Works operating divisions and, on a continuing basis, assures employee compliance with adopted City policies and procedures.

Administration also coordinates and schedules reports/recommendations for Council consideration and approval. The division prepares the accompanying resolutions/ordinances as required for action by the City Council. The Administration Division prepares the Departmental Annual Report with input from the various divisions; prepares, reproduces and binds public contract specifications for bidding purposes, in addition to all other reports and formal

documents that are initiated by the Public Works Department.

This division administers the records management program for the department with assistance and input from the various divisions. Old files are scheduled for retention, storage, and eventually destruction in accordance with the time schedules outlined in the Records Manual established for the Public Works Department. New files are created when deemed appropriate and all files are purged when necessary.

Administration staff frequently has initial contact with the public and, therefore, is often the first to learn of specific concerns from citizens. After obtaining all pertinent information, the staff member attempts to assist the individual. If the problem is beyond the scope of knowledge of the responding staff member, or if another division staff member may better assist the citizen, the concern is passed on to that individual to accommodate the most efficient resolution of all questions.

The department's typing is accomplished by the use of word processing through personal computers, previously connected as terminals by telephone line to the Hewlett Packard 3000 main frame at City Hall. The telephone interconnect was replaced with a hard wire direct connect hookup in July 1990. There had been difficulties prior to this hardware modification. Various software programs installed on the personal computers have enabled the clerical staff to utilize a broad spectrum of uses on the system.

PERSONNEL NOTES

The total number of person years worked by the Public Works Department in all divisions during fiscal year July 1, 1990 to June 30, 1991 was 117. Included in this figure were 99 permanent full-time employees working 40 hours/week and 35 part-time employees working less than 20 hours/week to 32 hours/week.

The full-time positions vacated in the department as a result of employees leaving the City for personal reasons or retirement consisted of the following:

Secretary II - Engineering Division	
Marian Hollywood	12/28/90
Custodian - Building Maintenance Division	
Gary Cossa	12/29/90
CL/MS - Building Maintenance Division	
Roy Johnson	12/29/90
WWTP Operator - Wastewater Division	
Paul Karr	12/30/90
Ass't SW Inspector - Solid Waste Division	
George W. Lasseter	01/27/91
WWTP Operator - Wastewater Division	
Gary Herman	03/01/91

continued;

continued from previous page;

Motor Sweeper Operator - Street Division
Jesse Torres 03/11/91

Ass't Director of P.W. - Administration Div.
John Fair 04/20/91

Front Loader Operator - Solid Waste Div.
Arthur Limon 05/06/91

CL/MS - Building Maintenance Division
Walter Hunt 06/08/91

The previous constitutes a turnover rate of 10.1% for all full time employees who left the Public Works Department during the fiscal year. In addition to the departure of the above employees, there has been the normal turnover in the part-time category; as follows:

Laborer III - Street Division
Steven Blake 07/07/90

Custodian - Building Maintenance Division
Matt Everling 08/12/90

Custodian - Building Maintenance Division
Atilano Lariba 09/07/90

Assistant Clerk - Administration Division
Theresa Novack 10/06/90

Custodian - Building Maintenance Division
Sue Rush 12/25/90

Clerk - Administration Division
Laura Agustin 02/16/91

Laborer - Wastewater Division
Thomas Hill 02/20/91

Custodian - Building Maintenance Division
Leonard Delgado 03/23/91

Custodian - Building Maintenance Division
Joe Salgado 03/23/91

In April 1991, Assistant Director of Public Works John K. Fair, was appointed as Public Works Director for the City of Salinas. During his tenure of approximately six (6) years as Division Head of the Engineering Division, the following more notable capital improvement projects were administered (design and construction) under his direction:

Santa Maria Town Center East and West	$ 20.0 m
Atkinson Park Modifications	0.75 m
Wastewater Treatment Plant Filter Media Replacement	1.2 m
Hagerman Softball Complex	2.8 m
Oak Valley Development	1.3 m
Depot Street Extension	1.0 m
Public Works Office Modifications	0.3 m

On 4/05/91, professional colleagues and friends gathered over lunch and extended their thanks and appreciation plus wished John and his family best of luck in their new location.

FIGURE 2

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
ADMINISTRATION DIVISION
ORGANIZATION CHART 1990-1991

DIRECTOR OF PUBLIC WORKS
REESE RIDDIOUGH

ASSISTANT DIRECTOR OF PUBLIC WORKS
J. FAIR

SECRETARIAL AND CLERICAL SERVICES

OPERATIONS	ENGINEERING
SECRETARY II (1) Albright	SECRETARY II (1) Hollywood
TYPIST CLERK II (1) Vallejo	WORD PROCESSING (1) OPERATOR Libis
CLERK (1) •• Davison	CLERK (1) •• Crawley

•• PERMANENT PART TIME

BUILDING MAINTENANCE DIVISION

The Building Maintenance Division has the responsibility for maintaining twenty-nine active city facilities. Each facility is maintained in a presentable and safe condition. To meet this goal, the division performs the following responsibilities: maintenance of both interior and exterior of city-owned buildings, including scheduled painting and plumbing maintenance, performing electrical repairs and alterations, maintenance and repair of heating, ventilating, and cooling systems; maintenance of five city-owned boiler systems; maintenance of the mechanical integrity of the public swimming pool; and provision of daily custodial service for eight city facilities. The division also assists planning and estimating costs for various building projects for all departments, and provides control and supervision over informal contracts to insure that all work performed complies with City specifications and applicable codes.

The Building Maintenance Division has a labor complement of one superintendent, three crew leader/maintenance specialists, two laborer III's, two maintenance worker II/custodians and eleven part-time custodian positions for a total labor force of 513 staff hours per week.

This division had two personnel changes this past year. A Crew Leader/Maintenance Specialist retired in December 1990, and another crew leader resigned his position in April 1991, due to a physical disability. One position was filled in June 1991, and the other position should be filled by year's end.

Contract services have increased by 7.5% this fiscal year due to the type of maintenance needed to maintain the buildings. Carpet contractors were employed to install new flooring in seven different areas of city buildings. A plaster contractor was employed on the Public Works multi-shop entry remodel project. Water softener service was added to Fire Station #2. A contract for pest control has been awarded to implement a pest control program at selected locations.

Added responsibility this past year includes the new James M. Hagerman

Center, a sports complex. The complex requires 4,200 square feet of building maintenance. New or revised state and county health and safety regulations has required increased time spent to implement the new programming and reporting procedures, i.e., (AB 2185) Business Plan and (SB 198) Written Injury Prevention Program.

The majority of the goals set for the division were met this fiscal year. The division prioritized and addressed 595 service and maintenance requests. Occasionally maintenance requests were large projects, such as office and area remodels (e.g., remodeling the Public Works multi-shop entries which involved one crew leader, one skilled 1000 hour employee and one laborer. The project took two weeks to complete.) The preventative maintenance program for heating, ventilating and air condition is in its third year and has proven to be quite effective. Maintenance hours spent in this area are up 0.2% over last year, but operating costs were down 1.5%. Continued efforts will be made in developing this program in an attempt to yield greater savings this coming year.

We were unable to complete our proposed scheduled facility painting program due to budget restraints in the staffing area. We did however, paint the exteriors of seven city buildings. This work has been long overdue. This work was accomplished with the help of a 1,000 hour temporary employee. The division's goal is to paint the exterior of our buildings every eight years and interiors every two to five years.

Health and safety programs implemented in order to comply with various changes in state and local regulations are in place and serving the division well. Administrative time has increased 2% this fiscal year to accommodate these changes. Personnel training in this area is documented under special services and reflects a 2.3% increase in hours over last year. It is a goal of the division to maintain an excellent safety record. The program upgrades are expected to minimize lost time due to on-the-job injury. This will increase productivity for the division over the long term.

Division goals for next year include improvement of the maintenance programs that are in place. In that regard, a special effort will be placed on the evaluation of the heating systems of our older buildings. A replacement priority list will be generated, based on safety, energy consumption and serviceability.

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
BUILDING MAINTENANCE DIVISION
ORGANIZATION CHART 1990-1991

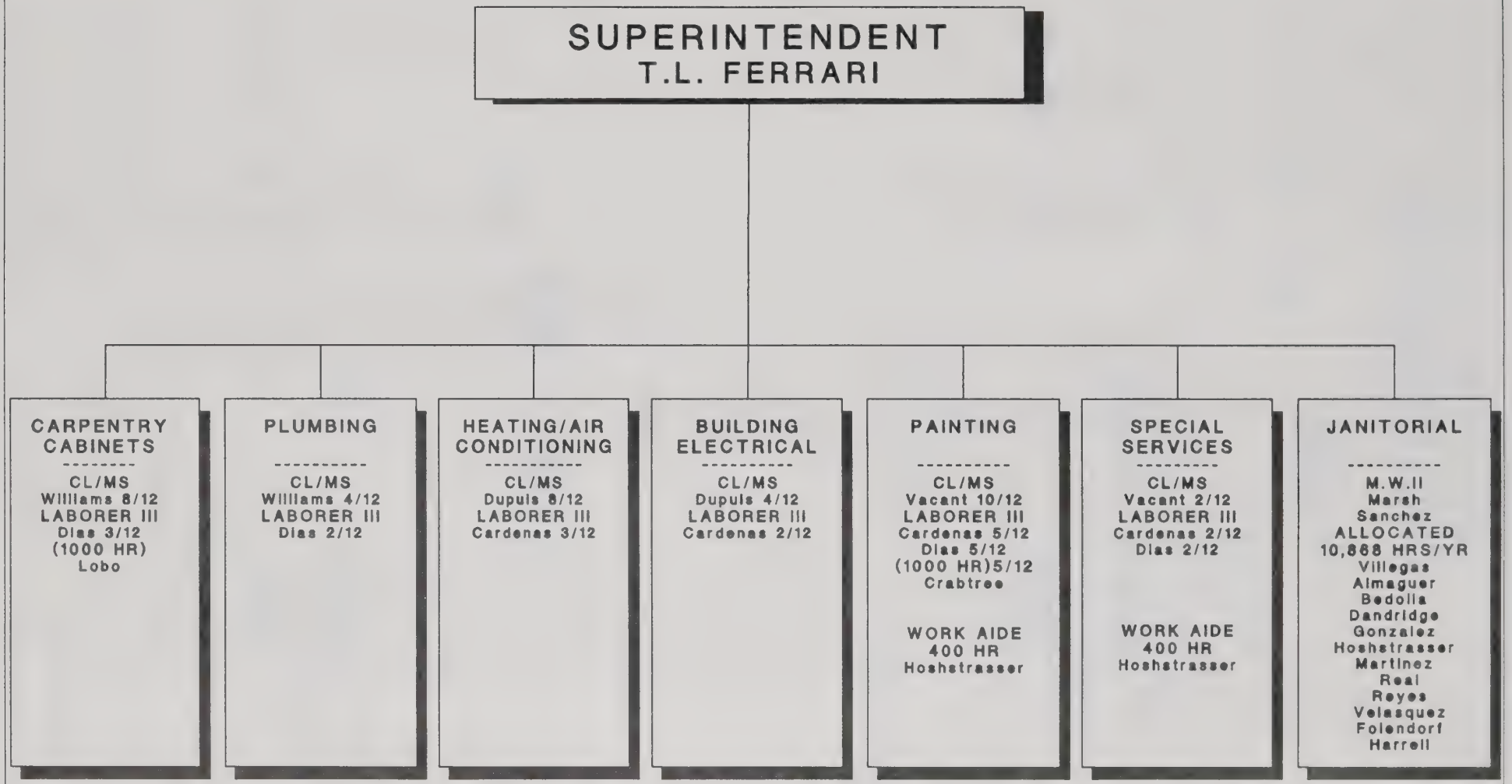
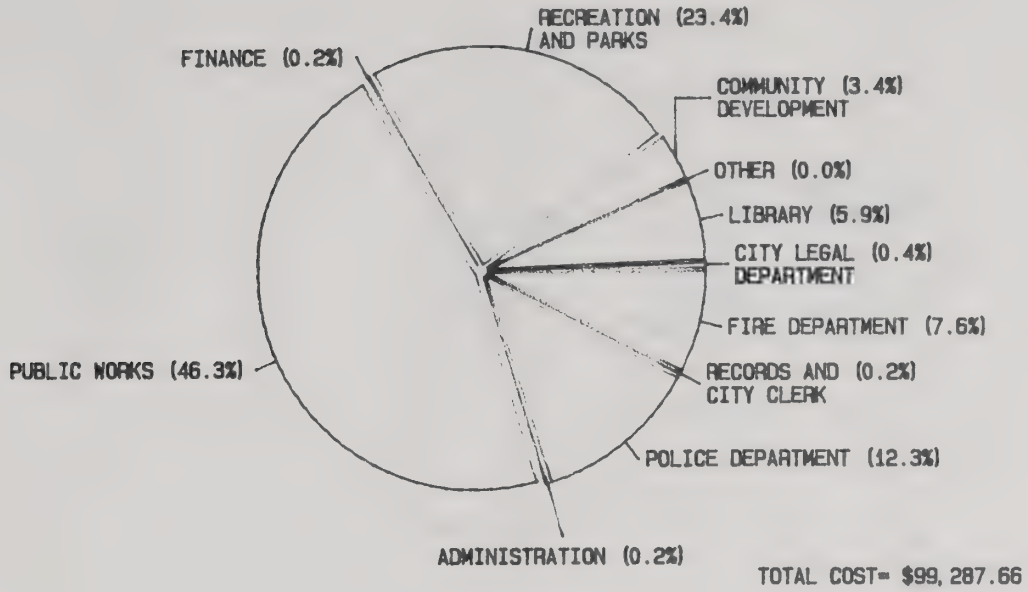


FIGURE 3

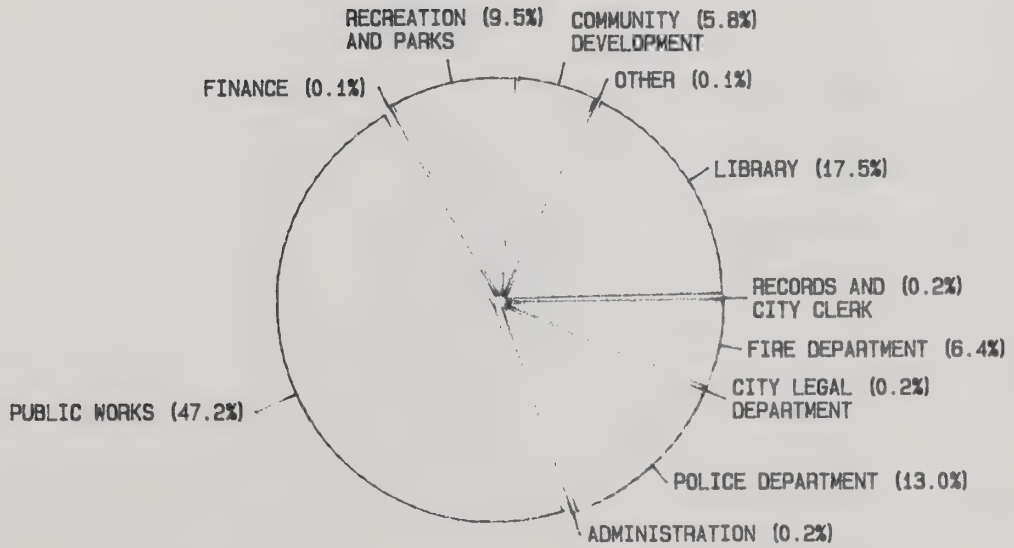
CITY OF SANTA MARIA

BUILDING MAINTENANCE DIVISION
WORK PERFORMED FOR DEPARTMENTS
Materials Cost



TOTAL COST= $99,287.66

Total Hours

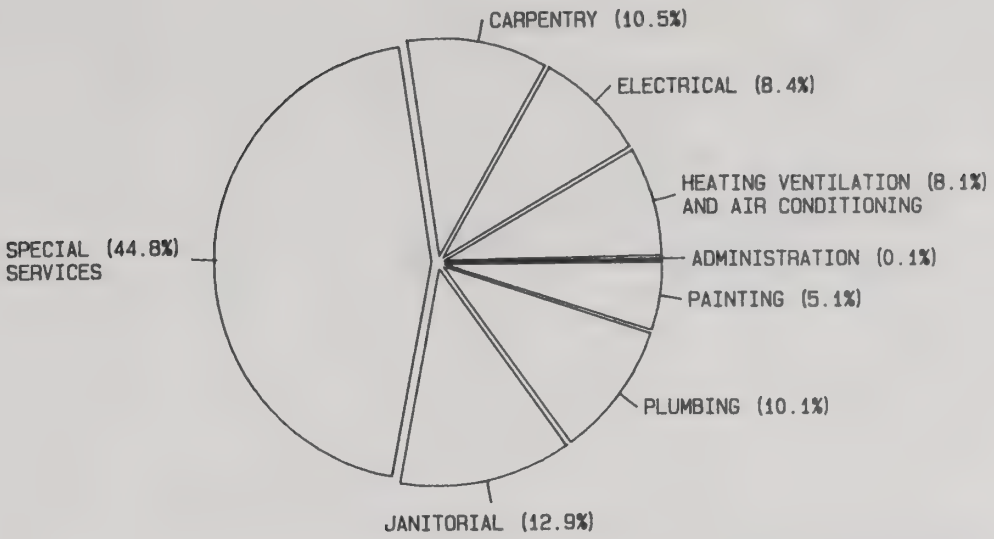


TOTAL= 21,792

FIGURE 4

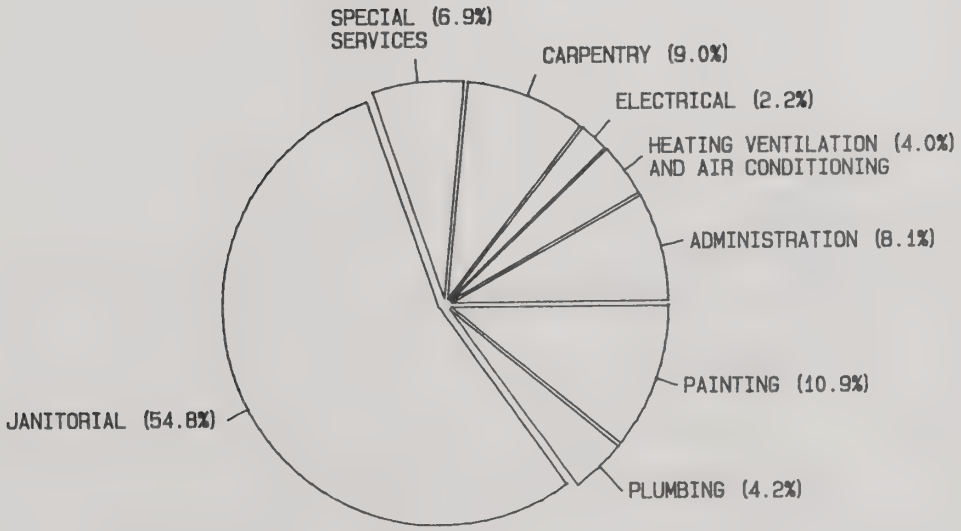
CITY OF SANTA MARIA

BUILDING MAINTENANCE DIVISION
WORK CATEGORY PERFORMED
Materials Cost



TOTAL COST= $99,287.66

Total Hours



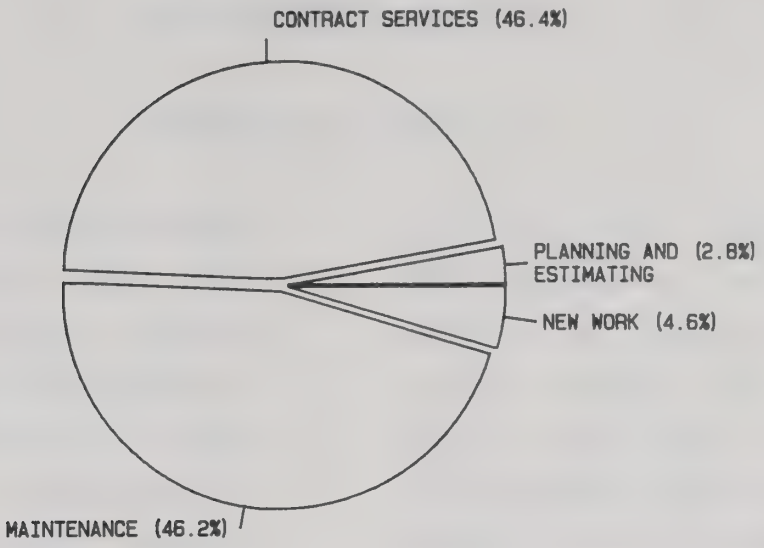
TOTAL= 21,792

FIGURE 5

CITY OF SANTA MARIA

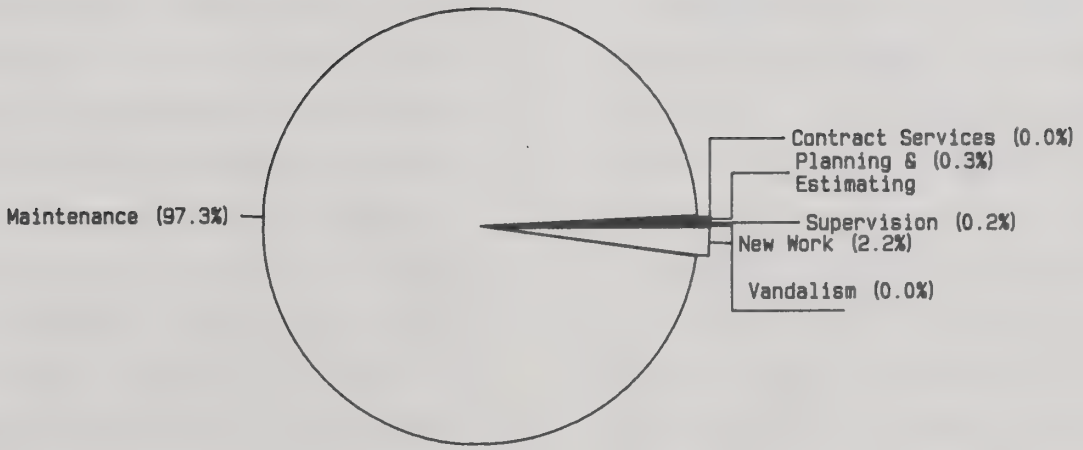
BUILDING MAINTENANCE DIVISION
WORK TYPE/CAUSE PERFORMED

Materials Cost



TOTAL COST= $99,287.66

Total Hours



TOTAL= 21,792

FIGURE 6

ENGINEERING DIVISION

Organization and Resources

The Engineering Division provides private development design review, design engineering and construction engineering services as needed for planning, design and construction of public facilities. The division has sixteen full time positions and two permanent part-time positions. Figure 7 indicates the division's organizational structure and the personnel assignments.

During the first quarter of the year a study was performed by an independent consulting firm to examine the operation of the Engineering Division. As a result of the study, several changes were implemented. The Assistant Director/City Engineer position was divided into two distinct positions. the classification of Senior Public Works Inspector was reduced to a Public Works Inspector and an additional Associate Civil Engineer to supervise the Traffic/Transportation Division was authorized. Richard Sweet, Associate Civil Engineer-Capital Projects Section, served as Acting City Engineer and John Fair served as Assistant Director. Three positions remain unfilled throughout the fiscal year. Those positions are City Engineer, Associate Civil Engineer-Traffic/Transportation Section and Public Works Inspector. An effort was made to offset these vacancies with temporary service employees and an increased reliance upon outside consulting services. The Engineering Office is now open through the lunch hour as a result of the study.

Additional personnel changes occurred due to reclassification, retirement, and terminations. An Administrative Intern position filled by Ginny Derrick was reclassified as an Assistant Draftsperson position. Marian Hollywood, Secretary II, retired. This position was reduced to a Secretary I position and subsequently filled by Stephanie Swarner. Gary France, Assistant Draftsperson, left the employ of the City. The Assistant Draftsperson position was filled by Jennifer Conli and then by Jimmie Cereska. Two contract employees completed their contracts and two permanent employees resigned. Rick Sweet assumed responsibilities of Acting City Engineer in November. Jim Bass was hired on contract in January and filled a temporary Associate Civil Engineer position.

Figure 8 shows the major activities of this division with respective approximate hours portrayed as percentages of the division's total staff hours. Due to the reorganization and the resulting unfilled positions, only 90% of the budgeted salary allocation of $511,157 was utilized.

Development and Planning

This section is responsible for the Public Works Department requirements related to private development, research and preparation of Subdivision Reports, General Plan Amendments, Zoning Actions, Use Permits, Environmental Clearance Applications, Variance Permits, Building Site Reports, Drainage, Grading Plans, Plan Checking Public Improvement Plans and Final Maps even though the nation is experiencing economic slowdown and financing of developer projects is not readily available, the Development Section was barely able to keep up with the demands placed on its services. The typical turnaround time for project reviews per submittal, have been in the 6-10 week range. The estimated total cost of public improvements constructed by entrepreneurs as conditions to the approval of new subdivisions and other private developments totals over 3.6 million dollars.

Capital Improvements

Fiscal year 1990-91 saw the Capital Improvements section furnish design services for 19 formal projects and three informal projects as shown in Table 1, Figure 9. Design services typically involve preparation of plans, specifications, and estimates, either by contracted consultants or by in-house staff. In all, this section administered projects with a total value of $4,866,449.37.

The most notable project designed during this fiscal year was the Broadway Pedestrian Bridge linking Town Center East with the new Town Center West. This steel and concrete structure will span the heavily travelled Broadway Street, providing a safe and convenient passage for Mall patrons. It will also serve as the linch-pin for future expansion planned for Town Center West.

The City identified a serious poor lighting problem within the existing parking structure "A" in the Mall complex. A cost effective design was developed to significantly improve the visibility and safety lighting in this facility.

A fuel facility computer vending and accounting system was designed to improve the City's Police Department and Fire

Department facilities, as part of an expansion project.

Designing the new Sunrise Hills Park Project represents another prominent accomplishment completed this fiscal year. The new park will add to the City's already impressive park system.

Annual projects include street reconstruction and street maintenance projects. Those projects were completed efficiently with very little inconvenience to the public.

Technical support requests by various divisions of the Public Works Department and other City departments also place a significant demand on this section. The City Redevelopment Agency requests were addressed regularly, as well as ongoing technical issues related to the City's landfill.

Construction Management

Projects constructed during the reporting period are shown on Table 2, Figure 10. The contracts for these projects were administered and improvements were constructed during the 1990-91 fiscal year.

Noteworthy projects constructed for the Public Works Department during the year included the Waterline Project - 1990, Street Overlay Project - 1991, and the Blosser Road Improvements at Stowell Road.

Redevelopment Agency contracts completed during the fiscal year amounted to 9.1 million dollars. The major project was construction of a three-story parking structure at Town Center East with a capacity of 1,200 cars. The Heritage Walk which was also completed. This was the final phase for Town Center West in the current development schedule.

The City completed the final phase of the Oak Valley Subdivision. This project is a city sponsored development to create affordable housing. Public improvements were completed by the City for 140 single family residential lots.

Projects performed for the Recreation and Parks Department included completion of the Miller Street Landscaping and the Adam Park Nuisance Water Bypass.

Construction of public improvements by the private sector are also reviewed and inspected by this division including subdivision improvements, encroachment permits, utility permits, alley staking, and various other activities. Public improvements for 17 subdivisions were

constructed, inspected, and accepted by the City during the last 12 months. The new subdivisions created 501 residential lots and 68 commercial lots. There were 129 encroachment permits issued with a permit value of $44,566.50. Income received from sale of standard specifications and drawings, contract plans and specifications, and other miscellaneous documents amounted to $6,744.00.

Traffic and Transit

Administration

This section is comprised of two (2) full time and one (1) part time employees and performs the clerical support activities of the Engineering Division. This includes handling all written correspondence for the above-mentioned sections, the City Engineer, and preparing, reproducing, and binding public contract specifications for formal and informal projects for bidding purposes.

Traffic and Transit activity shown on Figure 8 includes the staff work for the Traffic Committee, private developments, design review, Santa Maria Area Transit, transportation planning, traffic operations, traffic studies, and department administrative support services.

The Traffic Committee work consists of reviewing engineering studies involving traffic counts, speed surveys, accident records, and related research and drafting. The Transportation & Planning Engineer acts as the secretary for the committee. This engineer schedules and attends the monthly meetings along with preparing the agenda/minutes, correspondence, memoranda, resolutions, reports to the City Administrator, and meeting with the public. The engineering staff also supports the City Attorney and Risk Manager by preparing reports on claims against the City involving traffic control devices and street and intersection design. Traffic Committee activity included:

1. Curb zone and parking investigation	16
2. Intersection studies	22
3. Miscellaneous traffic controls	14
4. Developments and building sites	5
5. Speed zones	11

Applicants for private and public development permits which are identified as generators of significant new vehicle trips are required to conduct traffic and circulation impact studies. The reports include, among other things, counts of the existing traffic, new and cumulative traffic projections, and proposed mitigation measures where levels of service would otherwise decline as a result of the proposals.

During the fiscal year, this section continued to assist the Community Development Department and consultants to update the Circulation and Land Use Elements of the General Plan as well as the Sphere of Influence Study.

Departmental support services included the local administration of Federal Aid Urban (FAU) project funding, budget review, Measure "D" funds, and special Santa Barbara County Association of Governments projects. Division staff members attend regional transportation as well as meetings necessary to provide local input to the regional planning agency for the Congestion Management Program and the California Clean Air Act Quality Attainment Plan.

The Engineering Division continued to provide the administrative and management functions for Santa Maria Area Transit (SMAT). The annual report for the transit service system has been included in this report for the reader's benefit.

SANTA MARIA AREA TRANSIT

1990/91 YEAR TO DATE

REPORT

FOURTH QUARTER OF FISCAL YEAR 1990/91

AND YEAR TO DATE 6/30/91

PREPARED FOR

SANTA MARIA CITY COUNCIL

Prepared by:

Engineering Division
Public Works Department

Assisted by:

Santa Maria Organization of
Transportation Helpers

and Finance Department

SUMMARY

Ridership, Revenue and Expenditures

Fixed Route/Orcutt Shuttle

The fixed route system's fare box ratio in the fourth quarter was 21.6% and year to date was 22.5%. Operating costs for this fourth quarter was $130,251 and $510,420 for year to date. Ridership for the fourth quarter was 63,891 compared to 54,655 for the same fourth quarter of last fiscal year.

The fare box revenue for this quarter was $26,597 and $108,132 for year to date and they both reflect on the much improved fare box ratio.

Demand Response/Elderly and Handicapped

This service had a fare box ratio of 23.77% for the fourth quarter and a year to date ratio was 21.67%. Operating costs for the fourth quarter was $45,545 and $177,276 for year to date. Ridership continues at constant number of approximately 2000 passengers per month.

It should be noted that the above fare box ratio statistics include Measure D funds that were allocated to assist the frail and elderly services. The City is using these funds as local share of revenue to improve the fare box ratio. With these additional funds this service exceeds the required State fare box ratio.

Special Health Service

This service, which provides transportation to medical facilities in the Santa Barbara area, continues to operate in a satisfactory manner. The participating agencies of Santa Maria, Guadalupe, Lompoc and the County have agreed to continue the service and are providing their share of costs.

The fare box ratio for the fourth quarter was 17% and year to date was 14.13%.

Contractor Activities

SMOOTH continued to operate in a satisfactory manner during the fourth quarter and SMOOTH submitted all their required monthly reports on a timely basis and was in attendance at the monthly staff transit meetings. Staff's review of these reports indicated no major problems and SMOOTH was able to resolve all issues regarding complaints and requests. Service delays were at acceptable levels during fourth quarter.

Staff Activities

The engineering staff's work included the SMAT operating contract administration, Urban Mass Transportation Administration and Santa Barbara County Association of Governments reports and documents. The Mechanical Division maintained all the buses with no major problems or interruptions of service and the Finance Department supported this division with

all financial reports required for the SMAT system. Staff submitted the funding application to UMTA which includes federal operating assistance of $629,535, capital assistance of $641,600 and planning assistance of $16,000. Total federal assistance requested is $1,287.135 with a local share of $793,535. Approval is expected by December, 1991.

System Operations

The day to day operations of the SMAT system continued to operate in a satisfactory manner. Interruption of service was minimal due to defective equipment. There were no reported accidents during the fourth quarter. Complaints and requests involving operational procedures and interiors of buses were resolved by the SMOOTH staff.

TRANSIT SYSTEM ACTIVITIES

Ridership, Revenue and Expenditures

Fixed Route/Orcutt Shuttle

Ridership

The attached exhibits "A" and "B" show the statistics and performance indicators for the fourth quarter and year to date. Exhibit "C" and "D" show the number of passengers for each of the fixed routes and type of ridership. Exhibit "E" illustrates the monthly passenger counts for fiscal years 89/90 and 90/91. The continuing increase in passengers is a good indication of the SMAT's potential to meet the needs of the growing Santa Maria area transit dependent population. It should be noted that the monthly passenger count of 22,488 in May exceeded the previous record high and this was also the highest recorded quarter passenger count.

Revenue/Operating costs

The year to date fixed route fare revenues were $108,132 with operating costs of $510,430. The adjusted fare box ratio was 22.5% during this same period. We intend to continue improving the system and thereby generate more passengers which in turn will help the fare box ratio.

In comparison with the same period last year (year to date 6/30/90), the system had fare revenues of $97,046 and operating costs of $496,750 with a fare box ratio of 21%.

Demand Response/Elderly Handicapped

Ridership/Revenue/Operating Costs

Ridership for the through the fourth quarter was 23,972. The monthly counts continue to remain constant. Operating costs for through the fourth quarter was $188,191. The fare box ratio ended with 22.48%. The fare box ratio reflects funds allocated from Measure D sales tax revenues. Approximately $20,000 have been used to improve the fare box ratio for this service.

Special Health Service

Ridership/Revenue

This special health service bus that goes to Santa Barbara twice a week continues to serve the needs of the north county area. Ridership and revenues are essentially the same every year and quarter. The year to date operating costs are $33,075 with fare revenues of $4,363 and fare box ratio of 14.13%. Costs for this service are shared by the agencies of Lompoc, Guadalupe, and the County of Santa Barbara.

CONTRACTOR ACTIVITIES

Contractor Operations

The SMOOTH staff at the end of June 30, 1991 included 2 supervisors, 3 dispatchers, 22 bus drivers, 1 bus porter, 1 part time clerk-typist, and 1 part time bookkeeper. There were three staff terminations and three replacements during the fourth quarter. There were approximately 162 hours training for new drivers and personnel. Evaluations, driver license and traffic citation checks were made for each new employee.

Marketing

A summary of marketing activities during the fourth quarter include the following:

* Bartering for radio station advertising for ads on buses

* Ad in S.M. Times - "Don't Drink & Drive-Memorial Day

* Booth at S.M. Women's Business Fair

* Booth at A.H. College for Earth Day 1991

* KCOY produced film now running for SMAT ad

* Bus entered in Elks parade

* Ad in S.B. County Fair brochure

SMOOTH continued with their public relations program which included attending meetings of social and club organizations, public agencies, and other relevant councils and associations. SMOOTH also conducted informational meetings a Vocation Training Center to explain new routes.

STAFF ACTIVITIES

The engineering division continued to monitor and administer the SMAT operations along with completing required assistance to the S.B.C. Association of Governments and UMTA.

Bids for 5 replacement buses were awarded and all but one bus have been delivered.

This department continued work with the Redevelopment Agency to provide a permanent transfer site within or adjacent to the Town Centers. A study is to determine the most feasible location for the SMAT transfer site has been temporarily put on hold.

Staff is currently working with the County of San Luis Obispo on providing bus services between the Town Center and the City of San Luis Obispo. A report for recommendations will be submitted to the City Council in November, 1991.

The modifications to the fixed route system began on May 17. 1991. The changes included modifying route 1, 4 and 3. Route 1 will change the route in the Foxenwood and

Foster Rd. areas; Route 4 will include the Vocational Training Center on A Street along with the new County Complex at Betteravia Rd. In order to off set these additional service hours Route 3 will have a change of headway from 30 minutes to 60 minutes. As of this date there have been no problems with these changes. There is, however, concerns that buses will be running full and leaving passengers at bus stops on Route 4. We will be monitoring this route (4) very closely since the county complex has opened and we anticipate more riders. If in fact, the route is over capacity we have several alternatives to consider. We can run a second bus during peak hours or add another bus and cut the headway from 60 minutes to 30 minutes.

SYSTEM OPERATIONS

Bus Maintenance

Other than routine maintenance and road calls there were no major mechanical problems reported during this quarter. The 5 buses to be replaced, however, have experienced more maintenance and this reflected on the higher than anticipated expenditures

Service delays/missed trips

SMOOTH has provided a monthly list of missed trips and service delays for the first half of the fiscal year. During this period there were 2 missed trips. A missed trip is when one-half or more of a fixed route is not serviced.

A service delay is defined as a delay for 10 minutes or more for the fixed route and 15 minutes for the demand response service. A review of the service delays indicates an average of 21 delays per month with an average of 12 minutes. All the delays were in the fixed route service. The monthly delays continue to be approximately 0.5% of the total time for the fixed route service.

SMOOTH reported that in the fourth quarter there were 13 occasions when a bus was full and passengers were left behind.

Accidents

There was no reported accidents during the fourth quarter.

Requests/Complaints

There were only 4 complaints received by SMOOTH in the fourth quarter. The complaints were generally minor and have been resolved by SMOOTH management. There were the usual requests for service outside of Santa Maria Service area.

Attachments: Exhibit "A" Year to Date Stats
Exhibit "B" Fourth Quarter Stats
Exhibit "C" Passengers by Route
Exhibit "D" Fixed Route Ridership
Exhibit "E" F.R. Pass. by Month
Exhibit "F" Operating Costs and Revenues

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SMAT SYSTEM OPERATING DATA
AND PERFORMANCE INDICATORS
90/91 FISCAL YEAR

YEAR TO DATE
6/30/90

SYSTEM DATE	FIXED ROUTE	DEMAND RESPONSE (ELDERLY/HANDICAPPED)
Base Fare	$ 0.90	$ 0.75
Vehicle Revenue Miles	226,765	72,953
Total Passengers	233,871	23,972
Revenue Passengers	204,099	---
Service Hours	16,376	6,102
Fare Revenue	$ 108,132	$ 19,372
Local Share/Measure D	---	$ 20,478
Operating Cost	$ 510,420	$ 188,191
Net Operating Cost	$ 479,500	$ 177,276
Performance Indicators		
RATIO - FARE REVENUE TO OPERATING COST - W/O INS.	**22.55%**	**22.48%**
Cost Per Passenger	$ 2.18	$ 7.85
Cost Per Revenue Mile	$ 2.25	$ 2.58
Cost Per Service Hour	$ 31.17	$ 30.84
Passengers Per Serv. Hour	14.28	3.93
Passengers Per Revenue Mile	1.03	0.33
Avg. Fare/Passenger	$ 0.46	$ 0.81

Note: Above Indicators Based on Operating Cost

SPECIAL HEALTH SERVICE

Service Hours	909
Service Miles	20,322
Passengers	1,506
Fares	$ 4,363
Operating Cost	$ 33,075
Net Operating Cost	$ 30,882
RATIO - FARE BOX TO OPERATING COST	**14.13%**

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SMAT SYSTEM OPERATING DATA
AND PERFORMANCE INDICATORS
90/91 FISCAL YEAR

FOURTH QUARTER
6/30/91

SYSTEM DATE	FIXED ROUTE	DEMAND RESPONSE (ELDERLY/HANDICAPPED)
Base Fare	$ 0.90	$ 0.75
Vehicle Revenue Miles	59,224	18,892
Total Passengers	63,891	6,008
Revenue Passengers	54,939	---
Service Hours	4,152	1,536
Fare Revenue	$ 26,597	$ 4,675
Local Share/Measure D	---	$ 6,150
Operating Cost	$ 130,251	$ 48,313
Net Operating Cost	$ 122,747	$ 45,545
Performance Indicators		
RATIO - FARE REVENUE TO OPERATING COST - W/O INS.	**21.67%**	**23.77%**
Cost Per Passenger	$ 2.04	$ 8.04
Cost Per Revenue Mile	$ 2.19	$ 2.58
Cost Per Service Hour	$ 31.37	$ 31.45
Passengers Per Serv. Hour	15.38	3.91
Passengers Per Revenue Mile	1.07	0.32
Avg. Fare/Passenger	$ 0.42	$ 0.78

Note: Above Indicators Based on Operating Cost

SPECIAL HEALTH SERVICE

Service Hours	234
Service Miles	5,611
Passengers	450
Fares	$ 1,407
Operating Cost	$ 8,812
Net Operating Cost	$ 8,276
RATIO - FARE BOX TO OPERATING COST	**17.00%**

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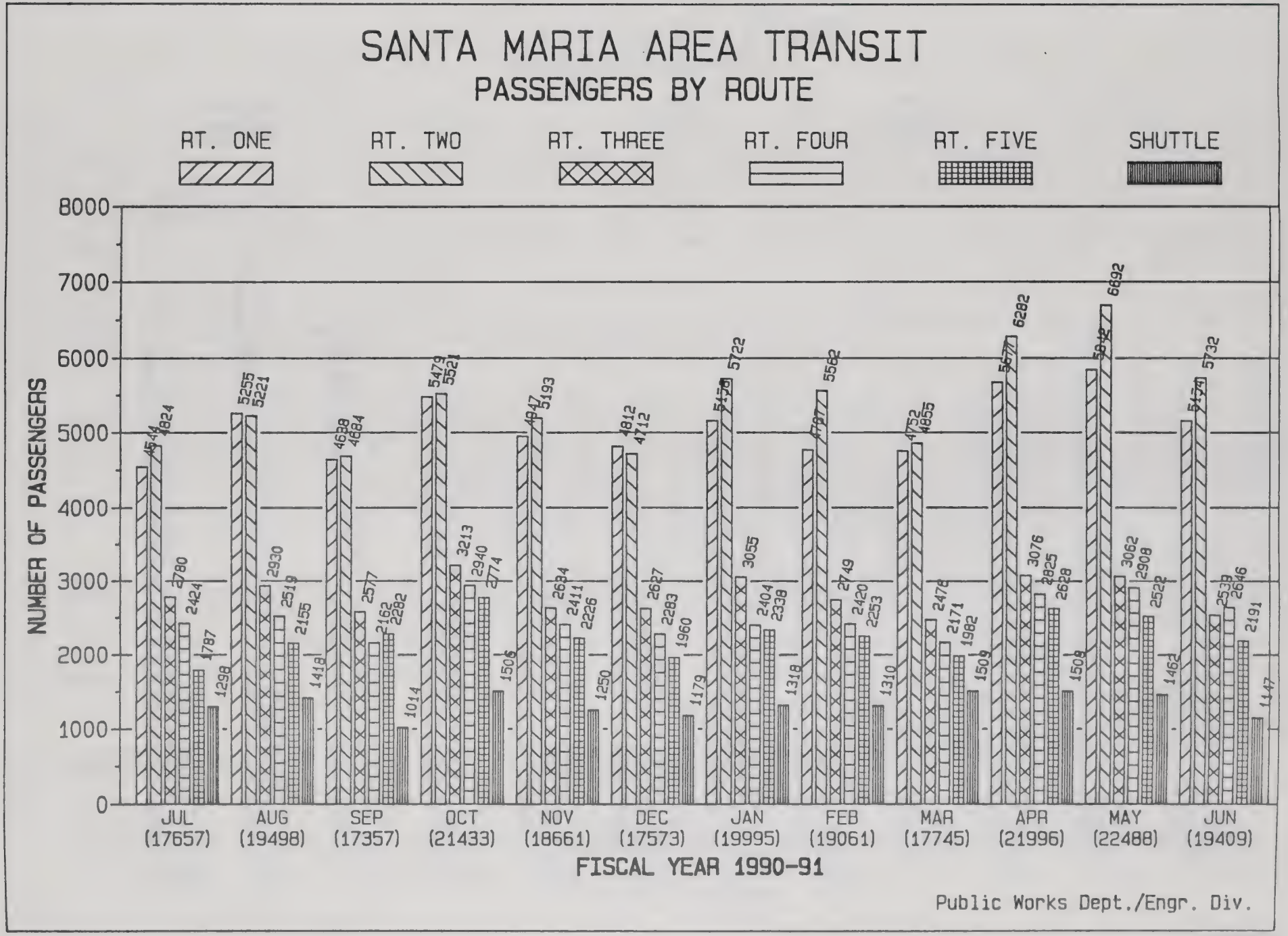
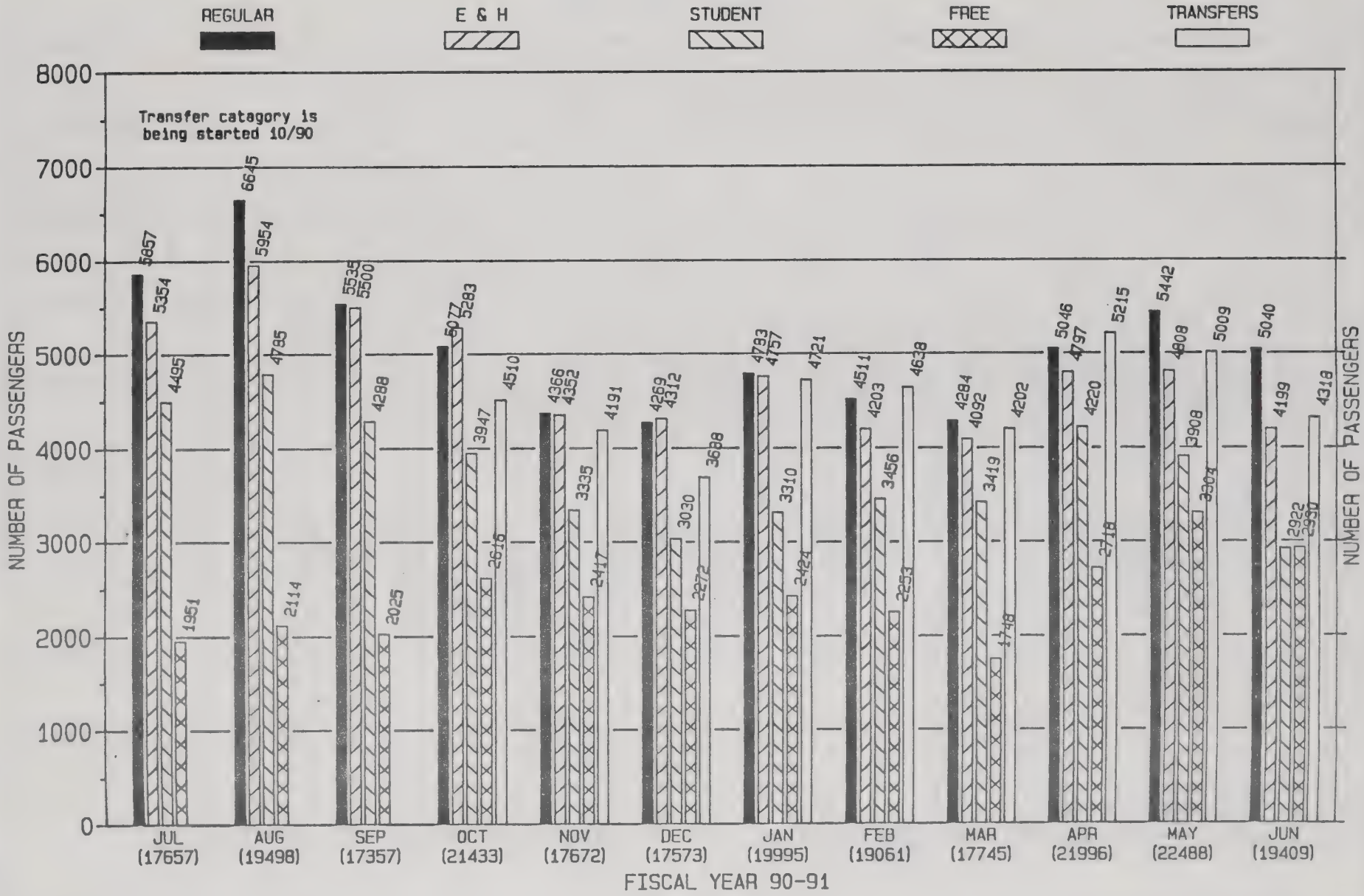

SANTA MARIA AREA TRANSIT
PASSENGERS BY ROUTE
RT. ONE
RT. TWO
RT. THREE
RT. FOUR
RT. FIVE
SHUTTLE
NUMBER OF PASSENGERS
8000
7000
6000
5000
4000
3000
2000
1000
0
JUL (17657)
AUG (19498)
SEP (17357)
OCT (21433)
NOV (18661)
DEC (17573)
JAN (19995)
FEB (19061)
MAR (17745)
APR (21996)
MAY (22488)
JUN (19409)
FISCAL YEAR 1990-91
Public Works Dept./Engr. Div.
FR90912

EXHIBIT C

SANTA MARIA AREA TRANSIT

Fixed Route Ridership



rid9091

EXHIBIT D

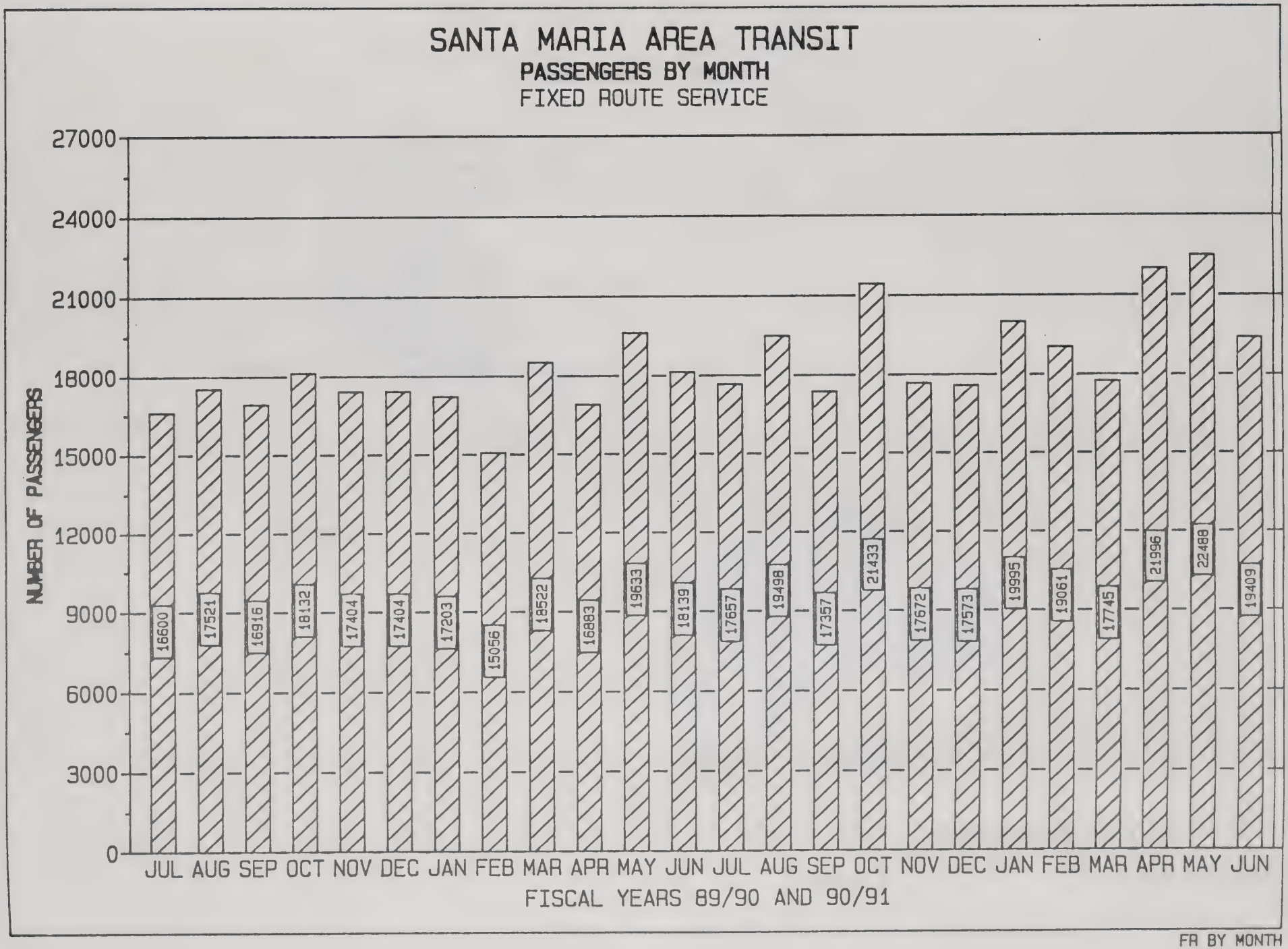
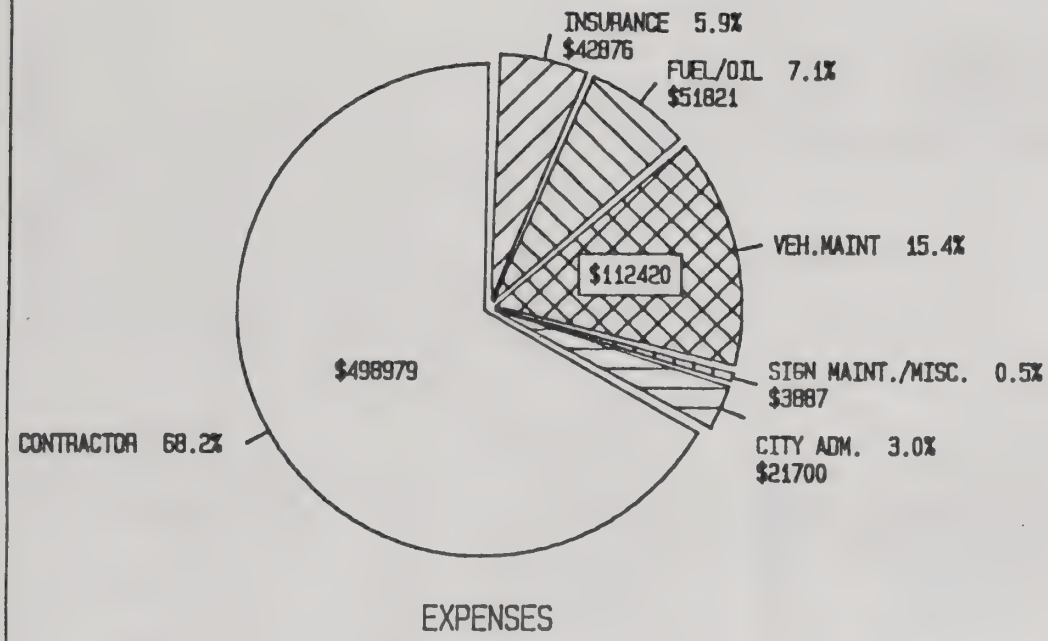
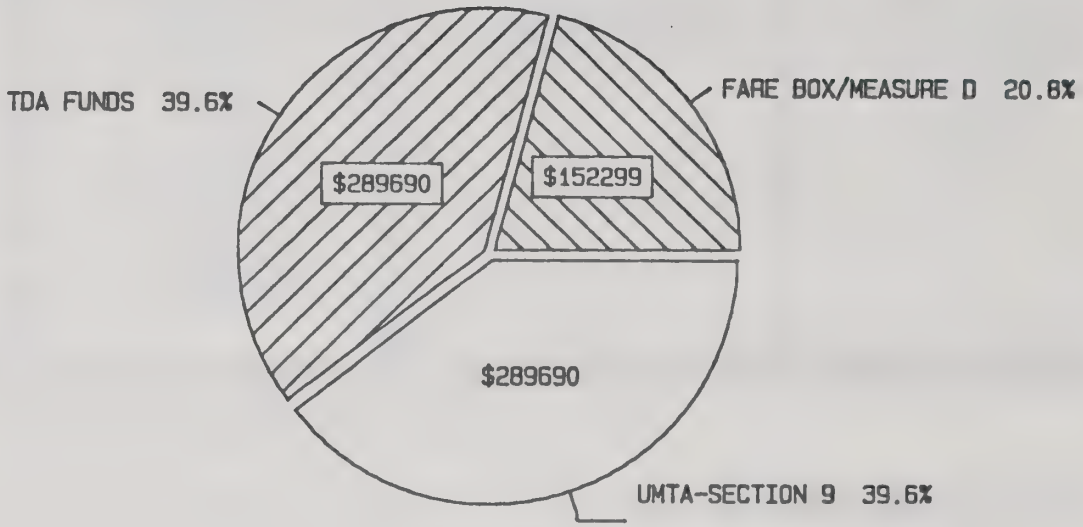

SANTA MARIA AREA TRANSIT
PASSENGERS BY MONTH
FIXED ROUTE SERVICE
NUMBER OF PASSENGERS
27000
24000
21000
18000
15000
12000
9000
6000
3000
0
16600
17521
16916
18132
17404
17404
17203
15056
18522
16883
19633
18139
17657
19498
17357
21433
17672
17573
19995
19061
17745
21996
22488
19409
JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN
FISCAL YEARS 89/90 AND 90/91
FR BY MONTH

EXHIBIT E

SANTA MARIA AREA TRANSIT
OPERATING COSTS AND REVENUES
FISCAL YEAR 1990-1991



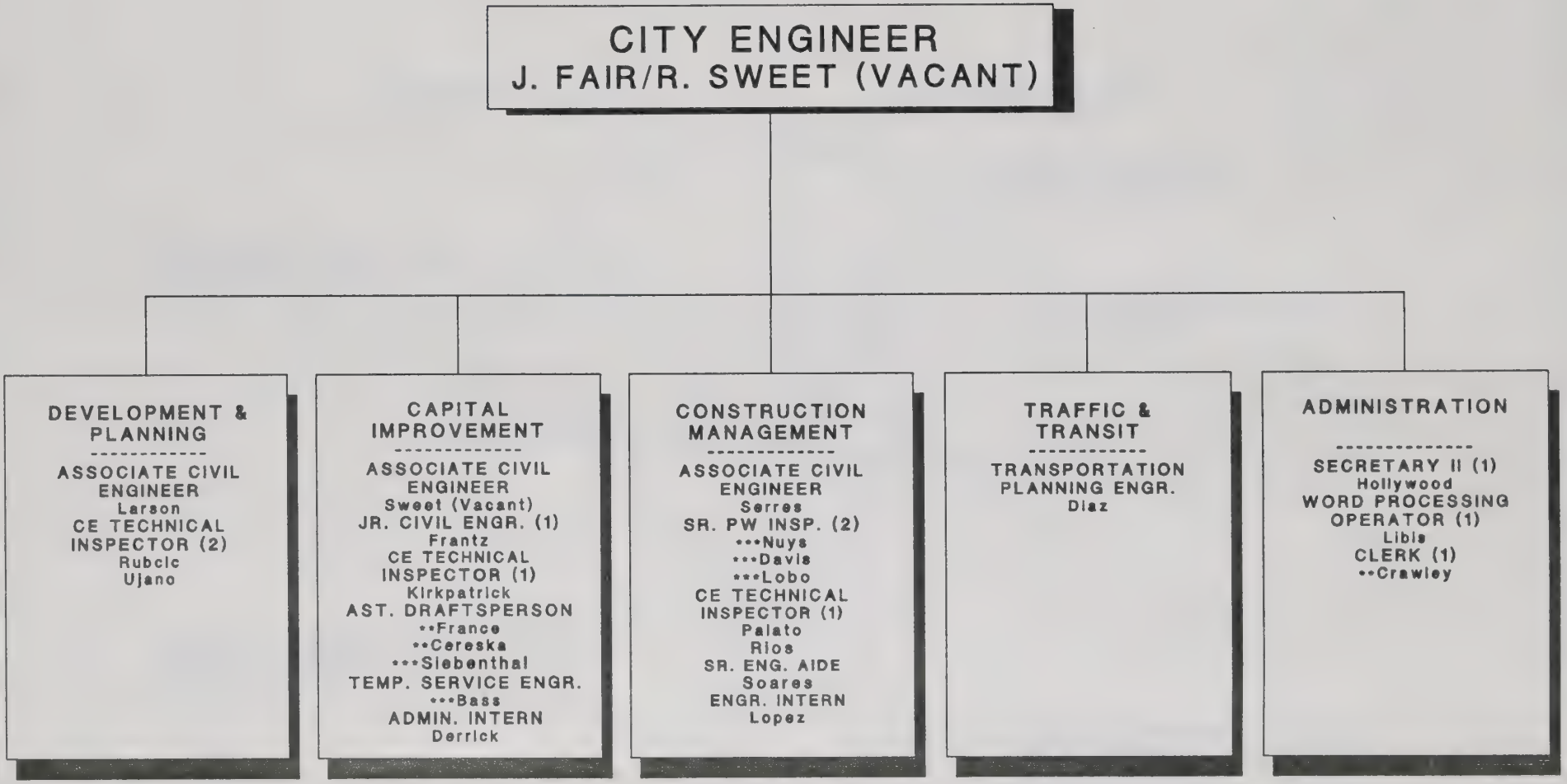
EXPENSES



REVENUES

EXHIBIT F

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
ORGANIZATION CHART 1990-1991

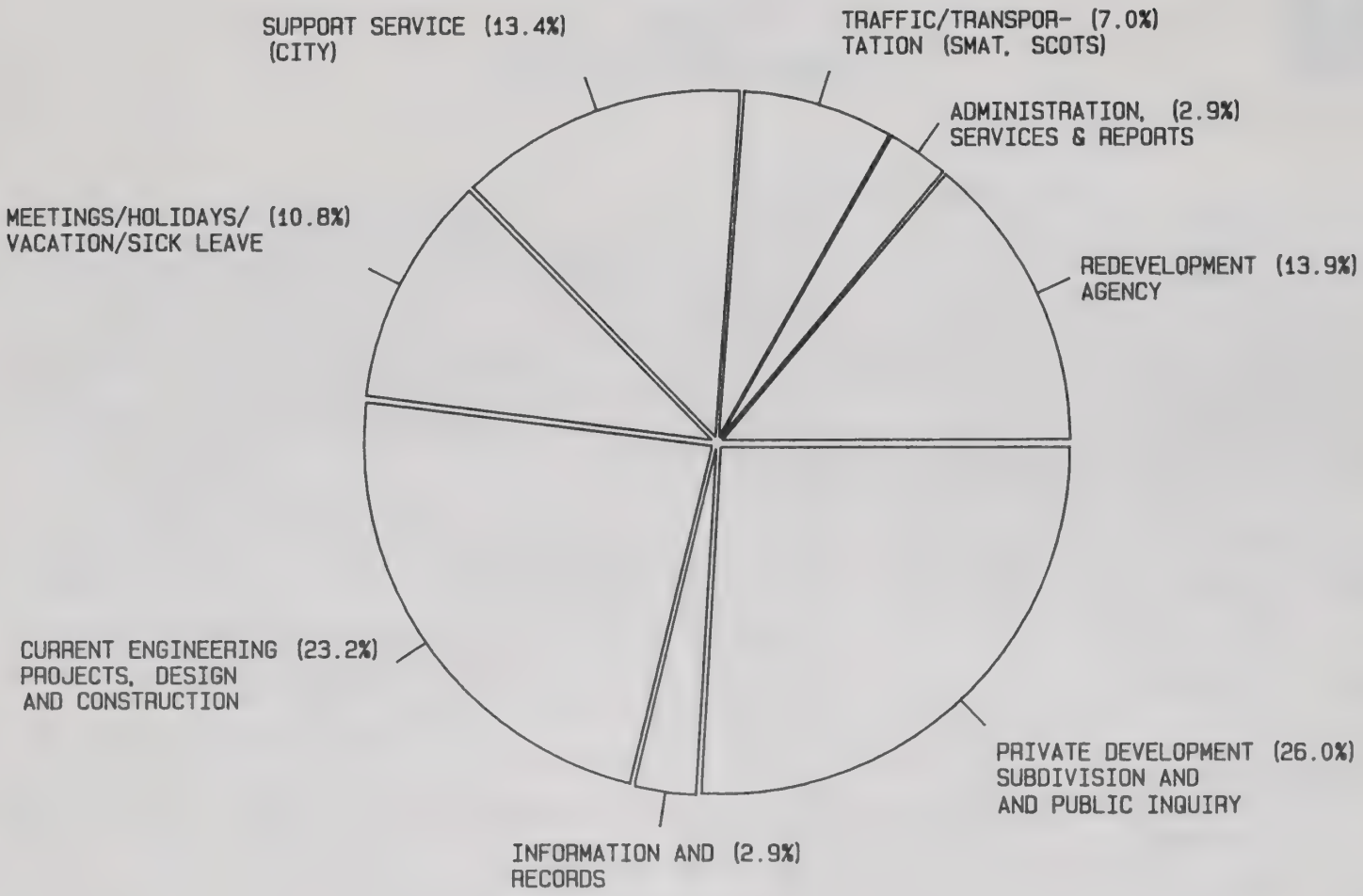


•• PERMANENT PART TIME
••• TEMPORARY SERVICE EMPLOYEE

FIGURE 7

CITY OF SANTA MARIA

DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
STAFF HOUR UTILIZATION REPORT 1990-1991



TOTAL STAFF HOURS 37,718.5

FIGURE 8

FIGURE 9 (1 of 2)

ENGINEERING DIVISION
CAPITAL IMPROVEMENT SECTION
TABLE 1
PROJECTS DESIGNED

BID NO.	PROJECT DESCRIPTION	ENGINEER'S ESTIMATE	CALL FOR BIDS	DESIGN ENGINEER
91/01	SIGNAL INSTAL. @ SKYWAY, MCCOY, & E. MAIN/PALISADE	180,000.00	08/07/90	ASSOCIATED TRANSPORTATION ENG.
91/02	STREET OVERLAY PROJECT – 1991	370,000.00	09/04/90	CITY OF SANTA MARIA
91/03	ADAM PARK TURF & NUISANCE WATER BYPASS	15,000.00	09/18/90	CITY OF SANTA MARIA
91/04	SIGNAGE FOR PARKING STRUCTURES A & B	67,000.00	03/05/91	LAWRENCE, REED MOLINE LTD.
91/05	WEED ABATEMENT 1990 – 1991	18,075.00	10/02/90	CITY OF SANTA MARIA
91/06	STREET RECONSTRUCTION – 1991	505,000.00	11/20/90	CITY OF SANTA MARIA
91/07	BROADWAY PEDESTRIAN BRIDGE, S.M. TOWN CENTER (PH III)	800,000.00	12/04/90	LAWRENCE, REED MOLINE LTD
91/08	ELECTRICAL MODIFICATIONS TO WELL 7S & 10S	20,000.00	11/20/90	ALVIN SMITH
91/09	TOWNCENTER EAST, PHASE VII	79,000.00	01/15/91	LAWRENCE, REED MOLINE LTD.
91/10	EAST STOWELL ROAD RECONSTRUCTION	550,000.00	06/04/91	CITY OF SANTA MARIA
91/11	CARD–LOCK FUEL DISPENSING SYSTEM	46,000.00	04/02/91	CITY OF SANTA MARIA
91/12	SUNRISE HILLS PARK – SOUTH	800,000.00	04/16/91	RECREATION SYSTEM INC.
91/13	S.M. LANDFILL MONITORING WELL 9 & 10	55,000.00	04/16/91	STAAL, GARDNER & DUNNE
91/14	OFFSITE WORK–BROADWAY PEDESTRIAN BRIDGE	75,000.00	04/16/91	CITY OF SANTA MARIA
91/15	NEIGHBORHOOD CONSERVATION PROGRAM AREA 1	125,000.00	05/07/91	CITY OF SANTA MARIA
91/16	S.M. POLICE & FIRE STAT. PARK LOT CONSTRUCTION	90,000.00	05/07/91	HALL, HURLEY, DEUTSCH

FIGURE 9 (2 of 2)

ENGINEERING DIVISION
CAPITAL IMPROVEMENT SECTION
TABLE 1 (CONTINUED)
PROJECTS DESIGNED

BID NO.	PROJECT DESCRIPTION	ENGINEER'S ESTIMATE	CALL FOR BIDS	DESIGN ENGINEER
91/17	S.M. POLICE & FIRE STATION BLDG. REMODELING	270,000.00	05/21/91	HALL, HURLEY, DEUTSCH
91/18	STREET MAINTENANCE – 1991	650,000.00	05/21/91	CITY OF SANTA MARIA
91/19	S.M. PARKING STRUCTURE "A" RELIGHTING	55,000.00	06/04/91	DITTMAN & ASSOC.
INFORMAL	VIDEO SEWER LINES – 1991	4,640.00	09/21/90	CITY OF SANTA MARIA
INFORMAL	POLE REPLACEMENT	86,734.37	10/08/90	CITY OF SANTA MARIA
INFORMAL	SUEY ROAD CROSSING	5,000.00	N/A	CITY OF SANTA MARIA
	TOTAL $	4,866,449.37		

FIGURE 10 (1 of 2)

ENGINEERING DIVISION
CONSTRUCTION MANAGEMENT SECTION
TABLE 2
PROJECTS CONSTRUCTED

BID NO.	PROJECT DESCRIPTION	FINAL CONST. COST	COUNCIL AWARD	COUNCIL ACCPT.	CONTRACTOR
INFORMAL	VIDEO SEWER LINES	$ 4,289.78	10/09/90	10/24/90	VIDEO INSPECTION SPECIALIST
90/11	BLOSSER ROAD	334,029.21	03/20/90	11/06/90	MADONNA CONST. CO.
90/18	S.M. LANDFILL ROAD EXTENSION	108,832.18	06/19/90	11/20/90	JOHN P. DONOVAN CONST. CO.
90/02	DESIGN & CONST. PARKING STRUCT. "B"	6,680,696.17	11/21/89	01/02/91	BOMEL CONST. CO.
90/03	OAK VALLEY, PHASE II	1,288,497.88	11/07/89	01/02/91	UNION ASPHALT, INC.
90/12	MILLER STREET LANDSCAPING	118,481.97	02/06/90	01/02/91	PAVILION LANDSCAPE CO., INC.
90/13	CONSTRUCT HERITAGE WALK @ TCW	1,017,502.74	01/16/90	01/02/91	JOHN P. DONOVAN CONST. CO.
90/21	S.M. SEWER MANHOLE REPLACEMENT & REHABILITATION PROJECT	85,850.00	08/07/90	01/02/91	SANCON ENGINEERING, INC.
91/02	STREET OVERLAY PROJECT – 1991	334,158.69	10/16/90	02/05/91	UNION ASPHALT, INC.
91/03	ADAM PARK TURF & NUISANCE WATER BYPASS	21,637.46	11/06/90	02/19/91	JOHN P. DONOVAN CONST. CO.
90/06	SURFACE PREPARATION & COATING OF VARIOUS STRUCTURES @ WWTP	65,100.00	10/17/89	03/19/91	SPIESS CONST. CO., INC.
90/08	REHABILITATE WELL 5AS & WELL 10S	101,095.75	11/21/89	03/19/91	FLOYD V. WELLS, INC.
90/16	TOWNCENTER EAST, PHASE V	277,402.02	06/05/90	03/19/91	A.J. DIANI CONST. CO., INC.
90/20	WATERLINE PROJECT – 1990	430,014.08	08/07/90	03/19/91	DECHANCE CONST. CO.
90/22	TOWNCENTER EAST, PHASE VI	371,987.00	07/17/90	03/19/91	A.J. DIANI CONST. CO., INC.

FIGURE 10 (2 of 2)

ENGINEERING DIVISION

CONSTRUCTION MANAGEMENT SECTION

TABLE 2 (CONTINUED)

PROJECTS CONSTRUCTED

BID NO.	PROJECT DESCRIPTION	FINAL CONST. COST	COUNCIL AWARD	COUNCIL ACCPT.	CONTRACTOR
91/05	WEED ABATEMENT	16,965.00	11/20/90	04/02/91	PESTMASTER SERVICES, INC.
90/10	S.M. LANDFILL MONITORING SYSTEM	97,802.51	01/16/90	05/21/91	A.J. DIANI CONST., INC.
90/15	TOWNCENTER EAST, PHASE IV	719,182.13	04/03/90	05/21/91	A.J. DIANI CONST., INC.
	TOTAL	$ 12,073,522.00			

MECHANICAL MAINTENANCE DIVISION

This Division is responsible for the management of the City's entire fleet of operations vehicles and other similar equipment. The mobile and stationary fleet has approximately 320 pieces of equipment varying in size and type powered by gasoline or diesel. The major portion consists of passenger vehicles and trucks; the remainder includes miscellaneous power equipment from lawn edgers to Caterpillar D-8 bulldozers.

The maintenance program includes "in-house" minor and major engine repairs, tune-ups, general repairs, metal fabrication, minor body repairs, brake repairs, tire repairs, lubrication and an effective preventive maintenance program. An analysis is performed on each job to assure best overall economy and safety. This has resulted in operating the division with a minimum dollar budget. This division is unique in that it operates as a "pool" rental system for all the mechanical equipment used by all the departments and divisions and entails the development of the specifications for purchasing of the same; keeps detailed records for equipment cost analysis and sets the rental rates for vehicles as well as the City radio communication units.

During fiscal year 1990-91, fleet vehicles traveled 1,803,794 miles, an increase of 2.5% from last year, using some 297,584 gallons of fuel, an increase of 2.6% from last year. Service fuel delivery tickets used during this period were 13,250.

The division addressed 3,420 shop repair orders. This is an increase of 230 from that used last year.

A budget balance is sustained through revenue from the Pool Rental Program and other reimbursements, as follows:

COMM. AND RENTAL	**$ 95,592.00**
a. Assigned and unassigned vehicles	2,528,415.20
b. Private party accident insurance	3,429.90
c. Sale of surplus vehicles and equipment	42,979.28
d. Services provided to other agencies	67,145.07
TOTAL	**$ 2,737,561.45**

Police patrol and Santa Maria Area Transit (SMAT) accounted for the greatest number of miles traveled during 1990-91 fiscal year. Police patrol operated 18 black and white units (includes K-9) for a total of 506,595 miles, or an average of 2,345 miles per unit per month for the 12-month period.

SMAT operated 11 mini buses during the same period in providing door to door, fixed route and health services transportation compiling a total of 332,126 miles traveled for the year or an average of 2,516 miles per unit per month.

Three state mandated programs have impacted municipal fleet maintenance operations, procedures, and budgets: The requirement to install Phase II Vapor Recovery Systems (VRS) at two (2) City maintained fueling points; the Bureau of Automotive Repair (BAR 90) Program; and the California Highway Patrol (CHP) Biennial Inspection of Terminals (BIT) Program.

I The Phase II VRS refers to the recovery of hydrocarbon vapors displaced by fuel that is being delivered to a motor vehicle. Benzene and other aromatic hydrocarbons are present in today's fuel mixtures. Since these compounds are listed in California's Proposition 65 carcinogenic category, the use of Phase II vapor recovery has been mandated statewide as a control measure for toxics, as well as a control of precursors to ozone. During the past fiscal year VRS's have been installed at the following fueling locations: Public Works Center and Police Department. This work was accomplished at a cost of $ 26,500.00.

II Santa Barbara County is now included in the California Smog Check Program (BAR 90). The Federal Clean Air Act passed by Congress set air quality standards for the nation. It mandated that designated areas failing to meet the standards must implement further emission control strategies. Government agencies that own and operate affected vehicles must comply with the Smog Check Program in accordance with the California Health and Safety Code, Section 44019, and are responsible for ensuring the emissions inspections of their affected vehicles. The purchase of appropriate equipment and training of appropriate personnel is scheduled and implementation is expected to commence on schedule on January 1, 1992.

III California Highway Patrol Special

Compliance, amended September 1, 1990, mandates motor carriers (operators) of certain trucks and/or trailers to participate in the Biennial Inspection of Terminals (BIT) Program which requires them to:

1) Submit an application and appropriate fee to the CHP for a BIT inspection.

2) Meet certain requirements established to ensure safety.

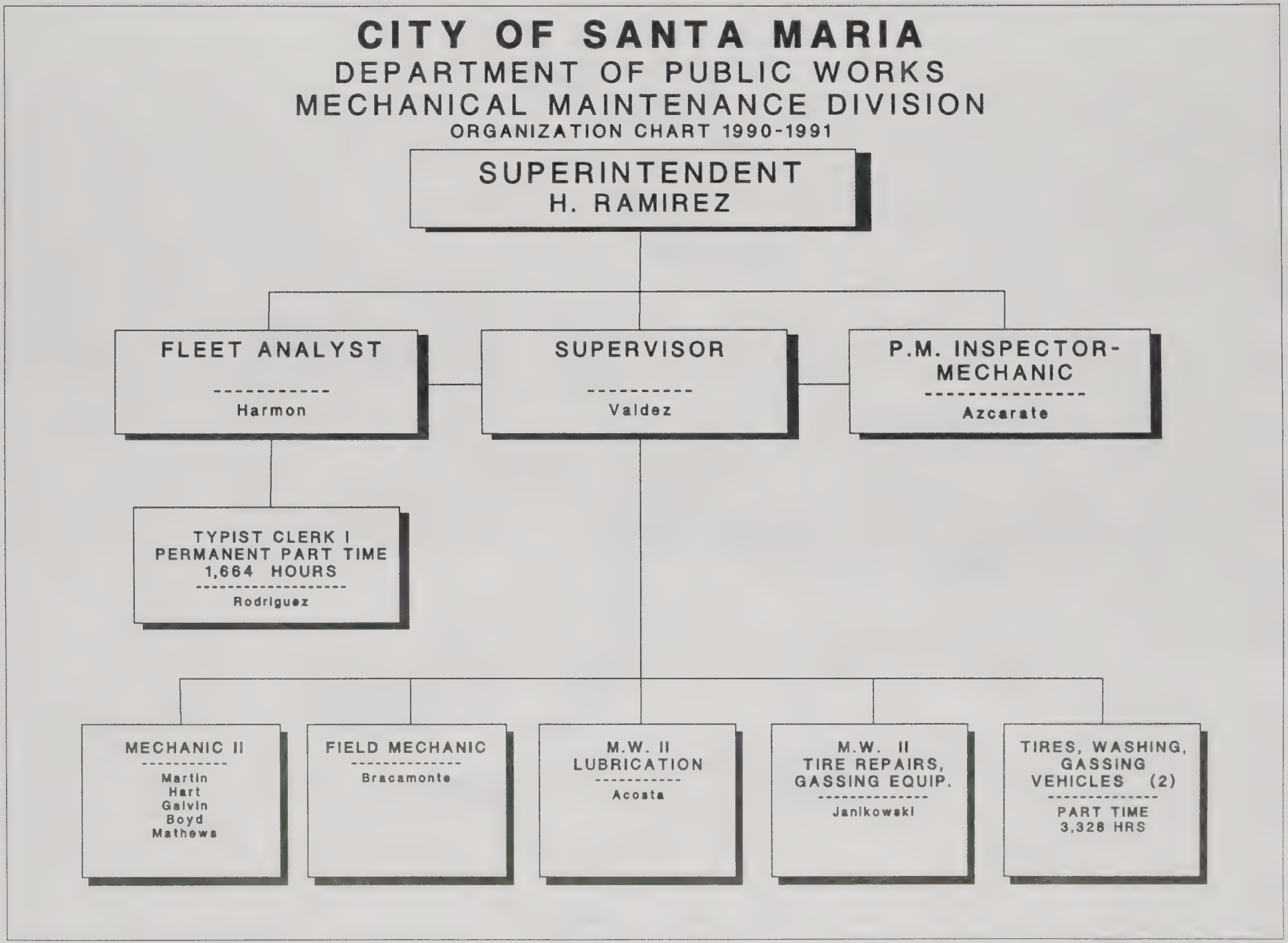
3) Enroll in the DMV Pull Notice Program to monitor driver's records.

"Terminal" is the location where vehicles subject to the BIT Program may be inspected by the CHP, and where vehicle maintenance records and drivers' records can be made available for inspection.

Petroleum dealers are still optimistic that fuel supplies will remain stable; however, as in the past, fuel supply shortages may occur in the future. Therefore, this division will continue to seek fuel saving methods, i.e., down size replacements where possible, encourage fuel saving driver's techniques (CAM 81-1) and investigate alternative fuels.

Figure 12 depicts staff hours for the various segments of this division's work.

FIGURE 11

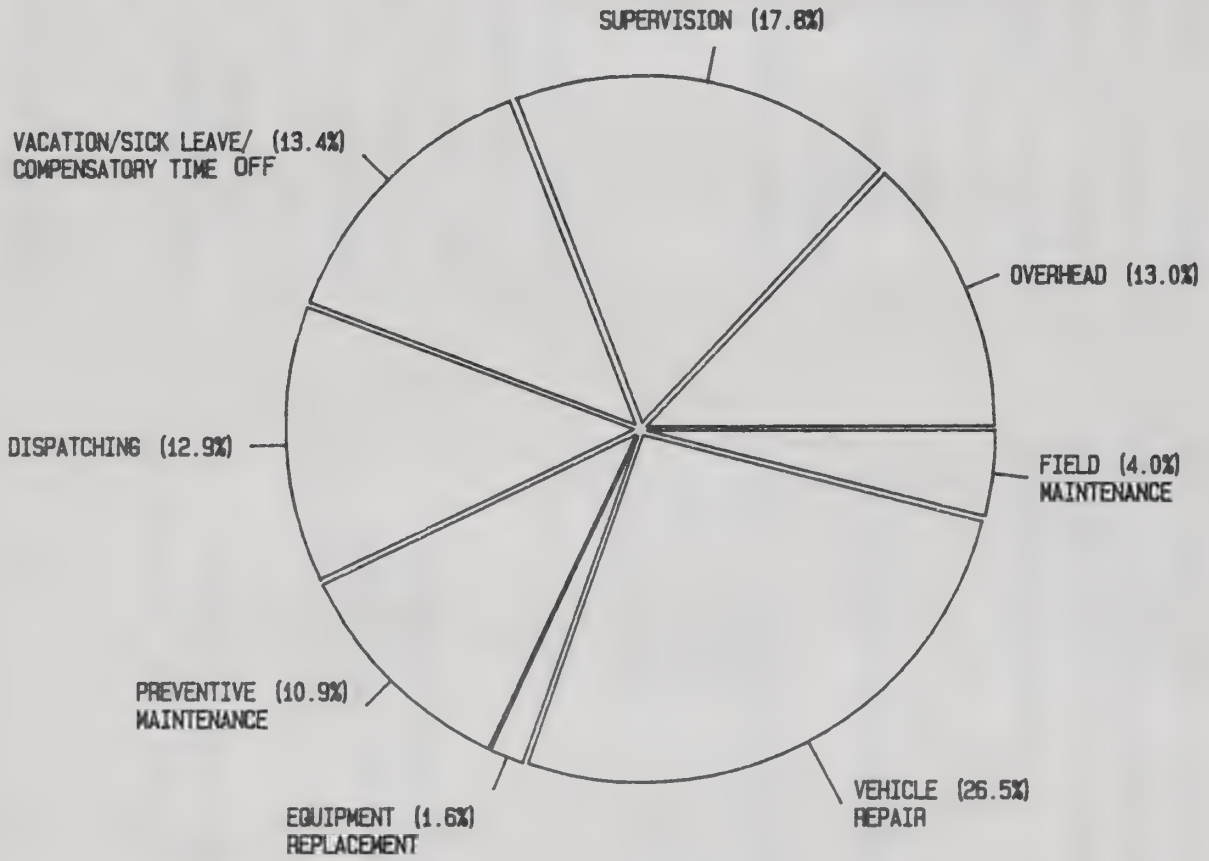

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
MECHANICAL MAINTENANCE DIVISION
ORGANIZATION CHART 1990-1991
SUPERINTENDENT
H. RAMIREZ
FLEET ANALYST
Harmon
SUPERVISOR
Valdez
P.M. INSPECTOR-MECHANIC
Azcarate
TYPIST CLERK I
PERMANENT PART TIME
1,664 HOURS
Rodriguez
MECHANIC II
Martin
Hart
Galvin
Boyd
Mathews
FIELD MECHANIC
Bracamonte
M.W. II
LUBRICATION
Acosta
M.W. II
TIRE REPAIRS,
GASSING EQUIP.
Janikowski
TIRES, WASHING,
GASSING
VEHICLES (2)
PART TIME
3,328 HRS

CITY OF SANTA MARIA

MECHANICAL MAINTENANCE

Staff Hour Chart

1990-1991



TOTAL STAFF HOURS: 28,890

FIGURE 12

SOLID WASTE DIVISION

The Solid Waste Division provides waste collection services to citizens of the City of Santa Maria and waste disposal services to areas of northern Santa Barbara County and southern San Luis Obispo County. The Division is organized into two sections - Collection and Disposal. The Division also has the additional responsibility for special waste handling.

Collection Section

The Collection Section of the Solid Waste Division is responsible for the collection of mixed refuse from approximately 12,444 residential and commercial accounts using city personnel and equipment. Residential refuse is collected twice each week and the commercial accounts are serviced from one to six times each week.

Most of the city is served by city forces, but the area southerly of Battles Road is being serviced by Health Sanitation Services, a privately owned and operated company. The company operates in the city under a franchise agreement overseen by the Solid Waste Division and the Finance Department. The northern boundary of the area franchised to Health Sanitation will change over time in accordance with the schedule given below.

FRANCHISE AREA CHANGE SCHEDULE

Year	Northern Boundary Change
1994	from Battles Rd. to Carmen Lane
1999	from Carmen Ln. to Betteravia Rd.
2004	from Betteravia Rd. to McCoy Lane

Residential collections by city forces are accomplished with four one-man automated sideloading (ASL) trucks.

Collection of commercial accounts is accomplished with three front loading trucks.

The amount of refuse collected during the reporting year totaled 39,155 tons which is a 1.2% increase over the prior year. The amounts of refuse collected for the past and current year are given on the next page for comparison.

Year	Residential Tons	Commercial Tons	Total Tons
1989	21,502	17,191	38,693
1990	21,789	17,366	39,155
% Difference	+ 1.3%	+ 1.0%	+ 1.2%

Since the implementation of the automated collection system for collection of residential accounts the amount of refuse collected has increased. The largest increase in the amount collected occurred after the first years of implementation. The amount collected during this reporting year (July 1, 1990 - June 30, 1991) appears to reflect only the increase resulting from increased population. Figure 14 shows, in graphical form, the amount of refuse collected from residential accounts over the calendar years of 1989 and 1990 by month.

Figure 15 is a comparison of the number of miles traveled by all Solid Waste Division trucks for each calendar year. Following are facts which have resulted in increases/decreases:

1981 Residential Decrease; Balancing Routes

1982 Residential Increase; New Construction

1983 Residential Increase; New Construction

1987 Residential Increase; New Construction

1988 Residential Increase; New Construction

1989 Residential Increase; New Construction

Figure 16 indicates the number of accounts for each fiscal year (June) for residential and commercial service over the past 15 years. A point to be noted is the 1979 and 1986 account figures were taken from the number of water meters in the City which included accounts serviced by Health Sanitation Service. Commencing with 1980, the accounts are actual per computer print out.

Figure 17 shows the total tons hauled for both residential and commercial customers over the past seven years (calendar year).

The amount of work related injuries still remains low with the automated residential collection system. There were

nine injuries in 1986 before automation and after four years of automation there has only been one injury.

Capital assets added this year consist of 100 new refuse bins (commercial) purchased for new accounts.

Disposal Section

The Disposal Section of the Solid Waste Division is responsible for operation of the City Landfill located along the easterly terminus of East Main Street. This involves the receiving, spreading, compacting and covering of all refuse produced in the City, as well as that produced by communities adjacent to the City in San Luis Obispo and Santa Barbara Counties. Some of the associated activities are comprised of constructing and maintaining the access road and erecting fences for the control of blowing paper.

Increases in dumping fees were instituted during the fiscal year; 11% on 07/01/90 and 40% on 04/01/91 to cover increased costs of operation, as well as those costs projected for future closure and environmental monitoring.

The regulatory activity at the landfill is on the increase. The division has implemented the groundwater monitoring program. Samples are collected and analyzed on a quarterly basis. Permanent sample collection pumps were installed in 8/91.

Figure 18 shows the acreage used through the past calendar years. The variation from a normal increase each year, starting in 1973 to present, is caused by the different types of land being used (reuse of the old landfill versus clean land). The reduction in land used in 1975, 1976, 1977 and 1982, 1983, 1984, and 1987 was caused by raising the height of the finished fill higher than in previous years and the use of a compactor, in addition to the clean land now being used. Increased land usage generally is the result of maintaining grade at the levee height, and increased use of the landfill by the public. In March of 1983, an additional 84 acres were purchased adjacent to the existing facility, however, presently this area is not permitted for disposal purposes.

The Engineering Department states that approximately 88 acres of clean land are remaining for the existing landfill operation as of June 30, 1991 (previous reports of remaining acreage were miscalculated; this report reflects the revision).

Figure 19 indicates the total number

of tons received at the landfill for the various calendar years since the commencement of scales operation. The graph shows the average number of tons received per day for each calendar year. These figures are reported on a quarterly basis to the Regional Water Quality Control Board in compliance with their Order No. 90-38 adopted May 11, 1990.

Figure 20 indicates the total loads for the year and average number of loads/day received at the landfill each calendar year.

Special Waste Handling Program

This program, implemented by the City Council in 1985, continues to provide citizens a location to dispose of or drop off vehicle waste oil, antifreeze, and lead acid batteries, thus preventing this type of waste from being disposed of in the landfill. As a result of a 7/90 order from the Santa Barbara County Environmental Health Care Services, paint and paint related waste can no longer be accepted.

The requirements of this program mandated as a waste discharge requirement under Order No. 90-38 are to: categorize the waste by type and compatibility; receive household hazardous material via a load check program; prepare the waste for transportation and disposal at a Class I hazardous waste facility; and manage the program and facility per State and local government hazardous waste standards and regulations.

The following are brief descriptions of the activities conducted during the past Fiscal Year.

Paint and Paint Related Material

For paint and paint related products, the fiscal year began on 7/10/90 and ended with the shipment on 7/12/91. A total of 1,960 gallons (38 drums) of paint related materials were disposed of at a total cost of $15,169.65. This includes costs of transportation and disposal by incineration and/or landfilling.

Paint is generally processed on a daily basis. Household Hazardous Waste (HHW) generated through the mandated load checking program is disposed of at several different facilities. Waste oil, antifreeze, and lead acid batteries are recycled.

Oily debris (24 drums) has been shipped to Kettleman Hills Class I Disposal Site (Chemical Waste), and all paint has been going to Omega Recovery Systems of Whittier, California since May 1990.

Oil-base paint is processed through Omega. Omega is a transfer station responsible for disposal of the paint through incineration or recycling. The City has also used the services of Romic Chemical Corporation of East Palo Alto, California. This firm also disposes of the paint through incineration. Applied Technologies and oil processing were also used as disposal options (incineration only).

Waste Oil

The fiscal year for waste oil began on 7/09/90 and ended with the 7/03/91 shipment. Seven thousand six hundred fifty three (7,653) gallons were recycled at a total cost of $833.75. There were no incidental shipments of oil contaminated with halogens. Such would warrant higher costs. So far this year, contaminated oil has been successfully screened out of the waste stream.

Oil is stored in an above-ground 600 gallon storage tank with secondary containment.

Community Hazardous Waste Collection

The City currently has a contract with EMCON and Associates to design and complete permitting for a permanent HHW Collection Facility at the landfill. Funds are budgeted and funds are also being pursued ($45,000) from a discretionary grant program with the California Integrated Waste Management Board. Assuming all goes well, this facility should be on line sometime in 1992.

At this time, the next collection day is scheduled for 10/19/91 at the Earl Warren Showgrounds in Santa Barbara, for south county residents.

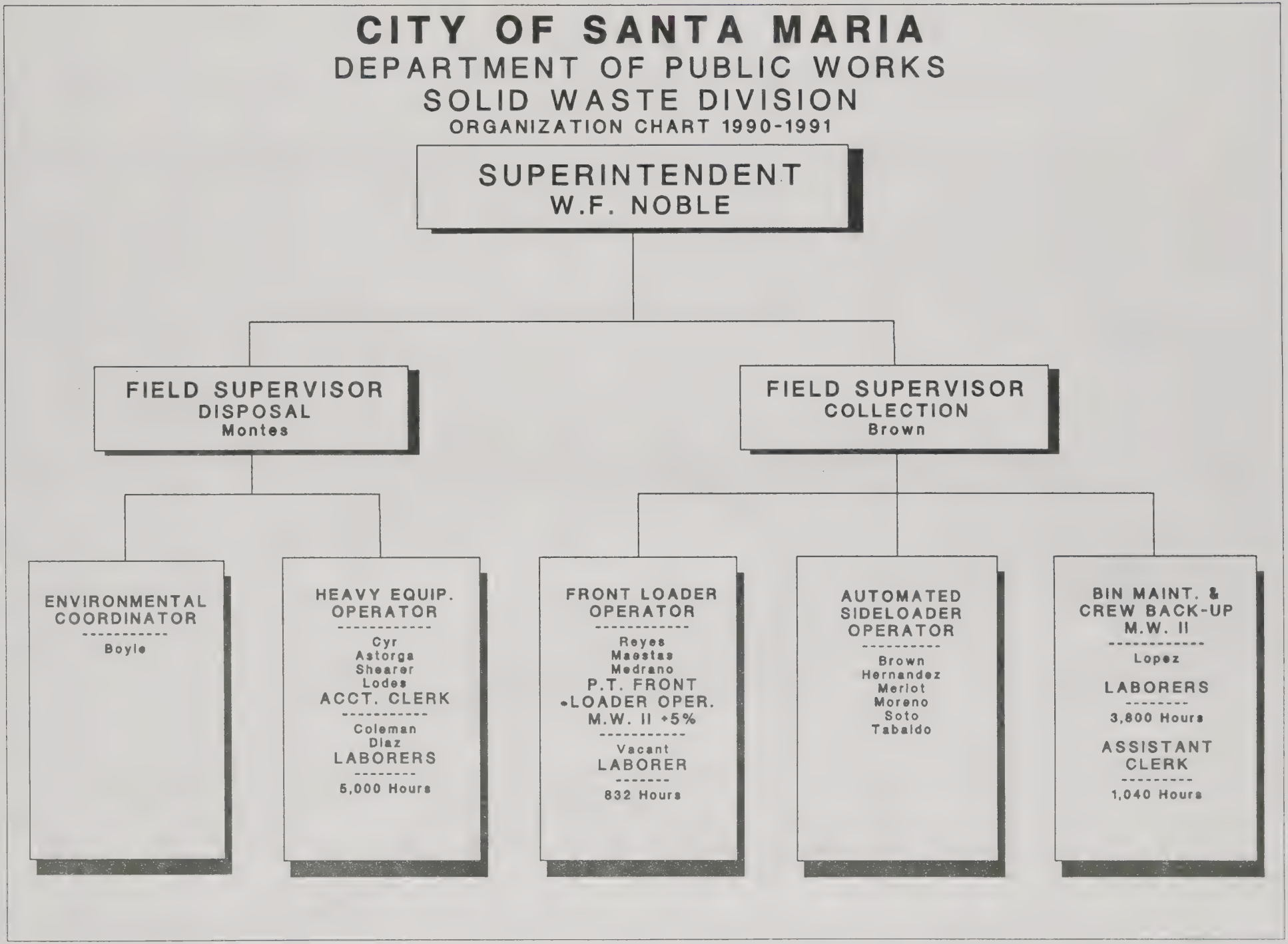
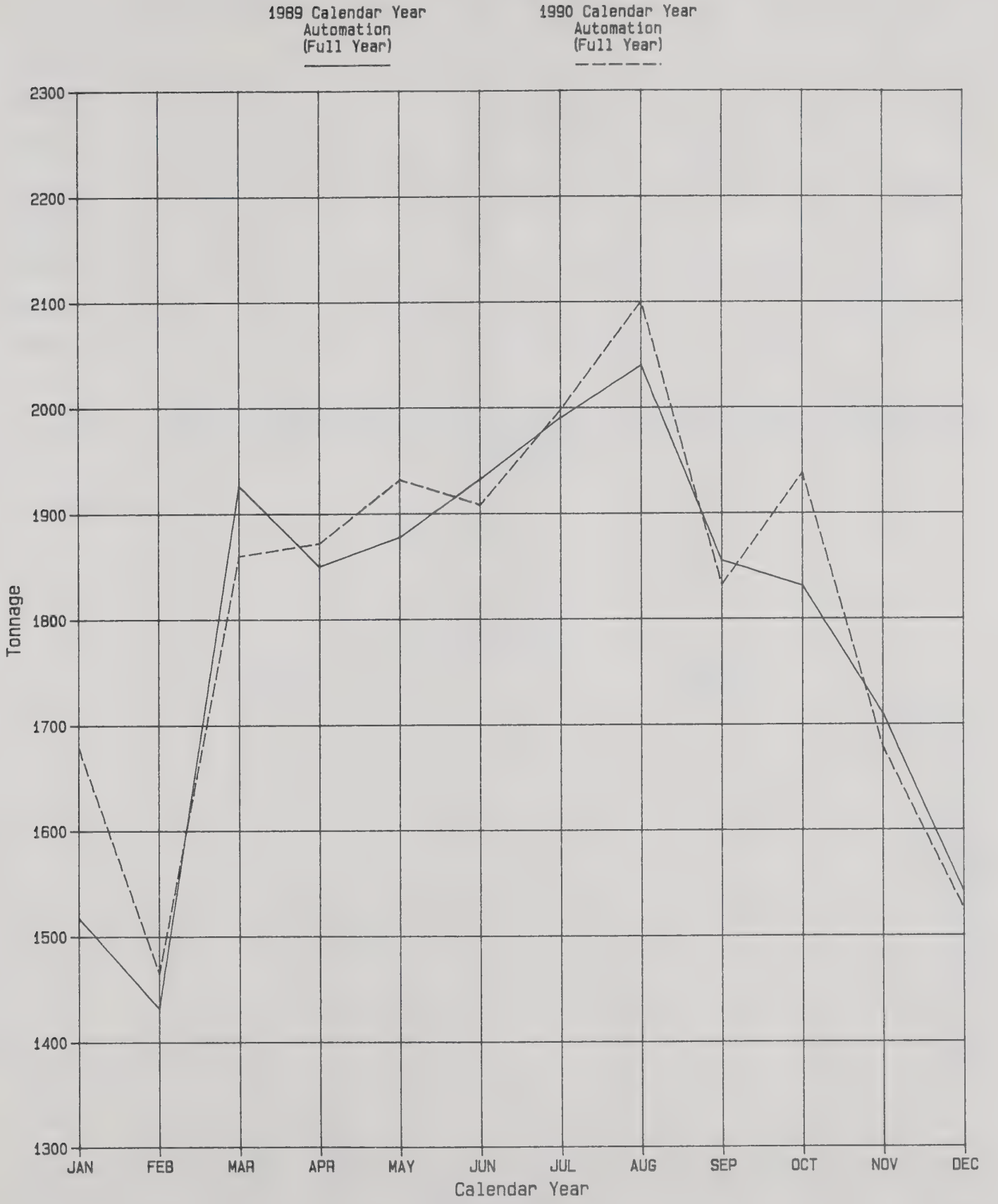

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE DIVISION
ORGANIZATION CHART 1990-1991
SUPERINTENDENT
W.F. NOBLE
FIELD SUPERVISOR
DISPOSAL
Montes
FIELD SUPERVISOR
COLLECTION
Brown
ENVIRONMENTAL COORDINATOR
Boyle
HEAVY EQUIP. OPERATOR
Cyr
Astorga
Shearer
Lodes
ACCT. CLERK
Coleman
Diaz
LABORERS
5,000 Hours
FRONT LOADER OPERATOR
Reyes
Maestas
Medrano
P.T. FRONT LOADER OPER. M.W. II +5%
Vacant
LABORER
832 Hours
AUTOMATED SIDELOADER OPERATOR
Brown
Hernandez
Meriot
Moreno
Soto
Tabaldo
BIN MAINT. & CREW BACK-UP M.W. II
Lopez
LABORERS
3,800 Hours
ASSISTANT CLERK
1,040 Hours

FIGURE 13

CITY OF SANTA MARIA

SOLID WASTE DIVISION

Residential Solid Waste Collection



ARSWDRWC

FIGURE 14

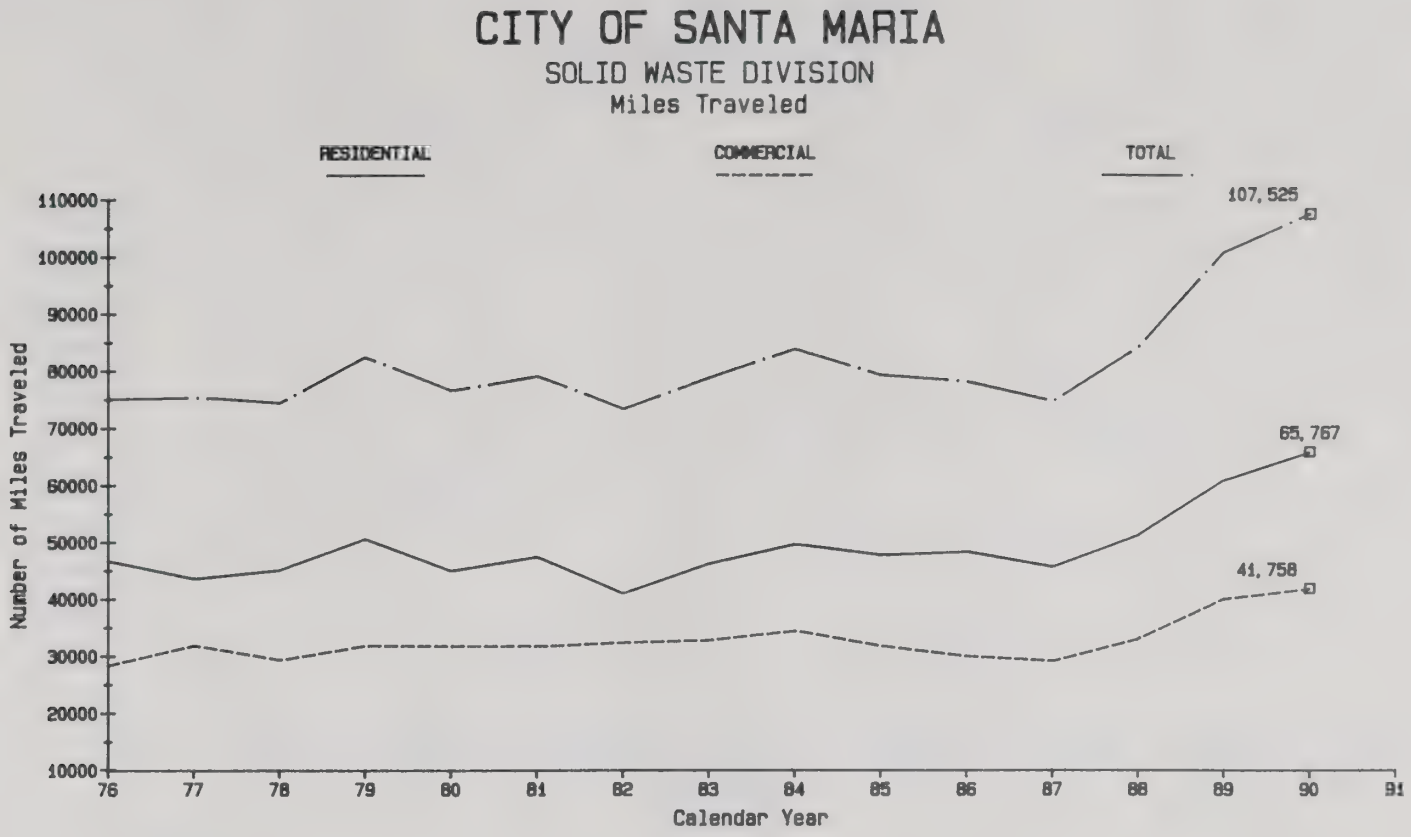


FIGURE 15

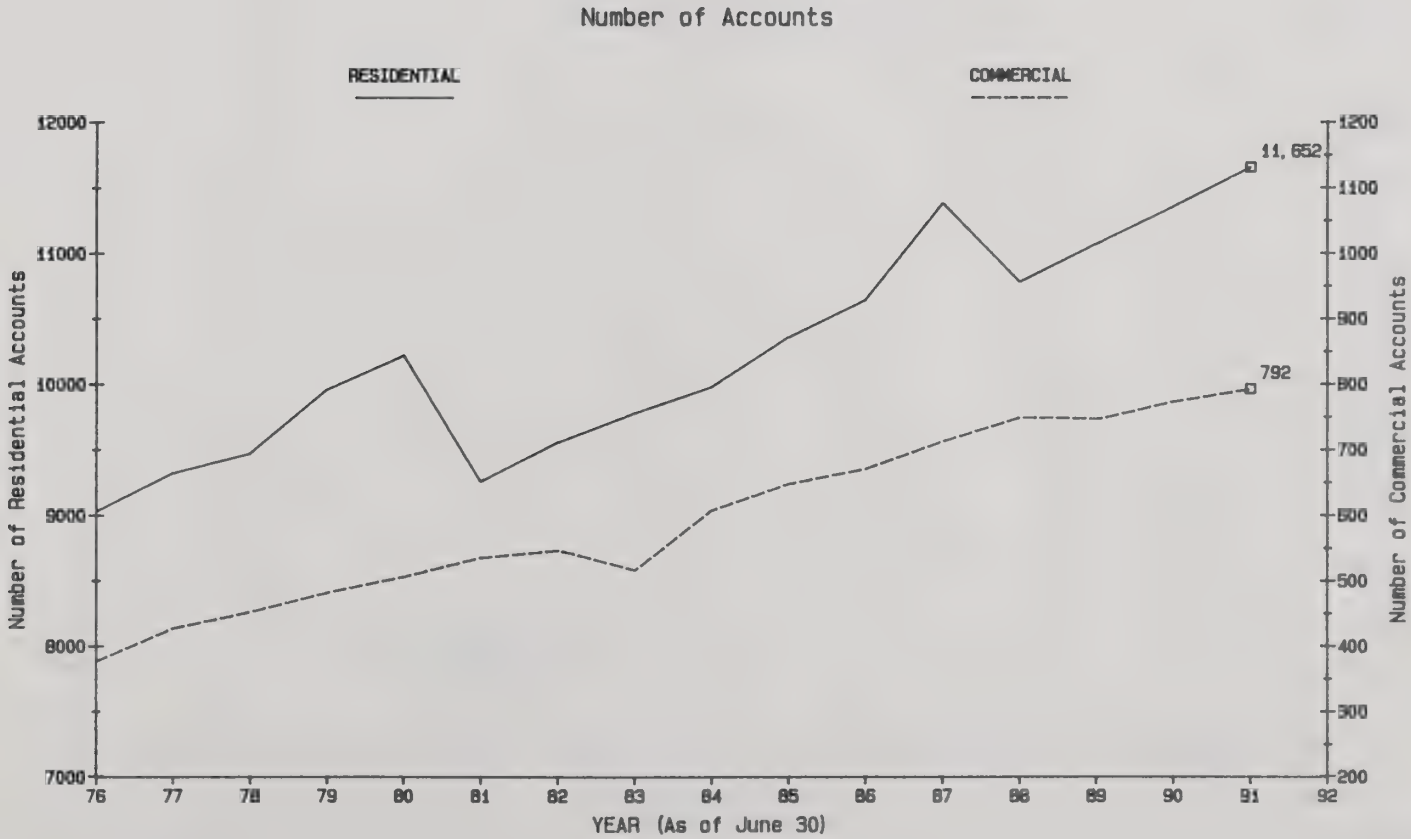


FIGURE 16

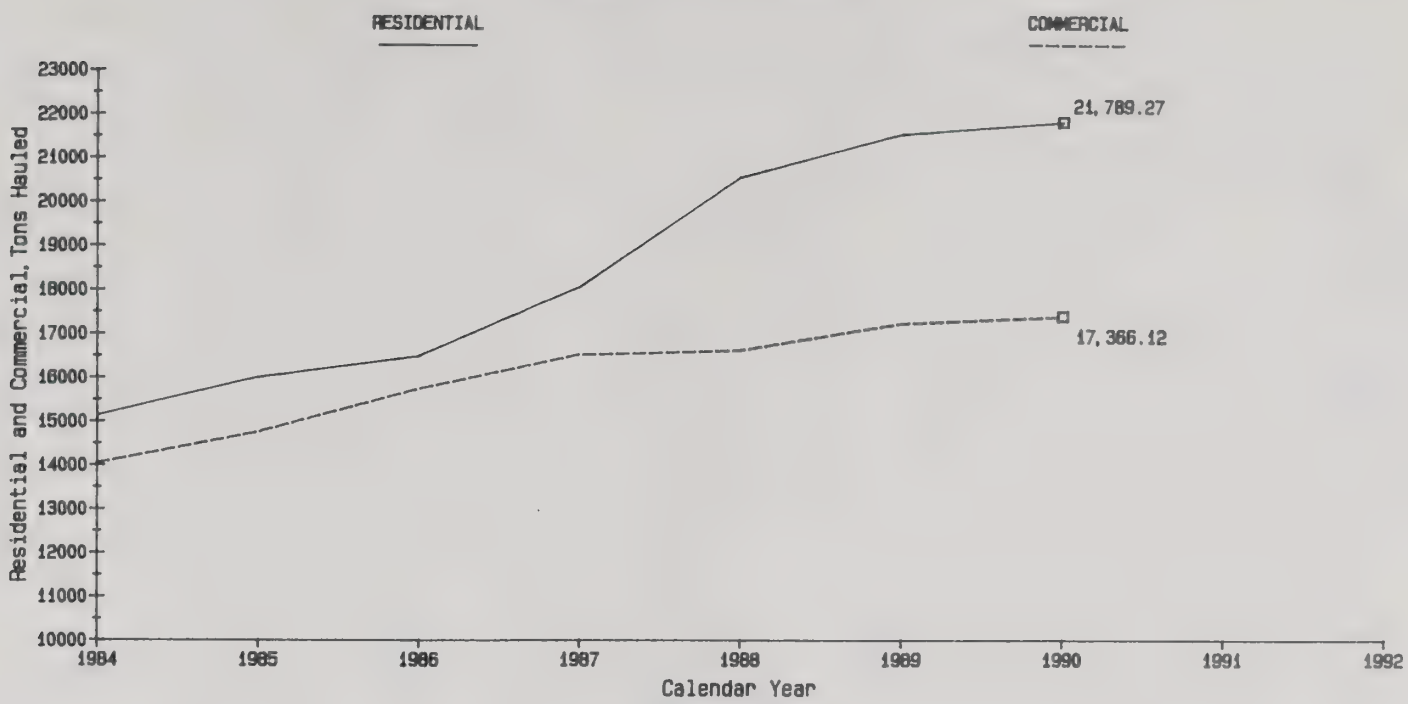


FIGURE 17

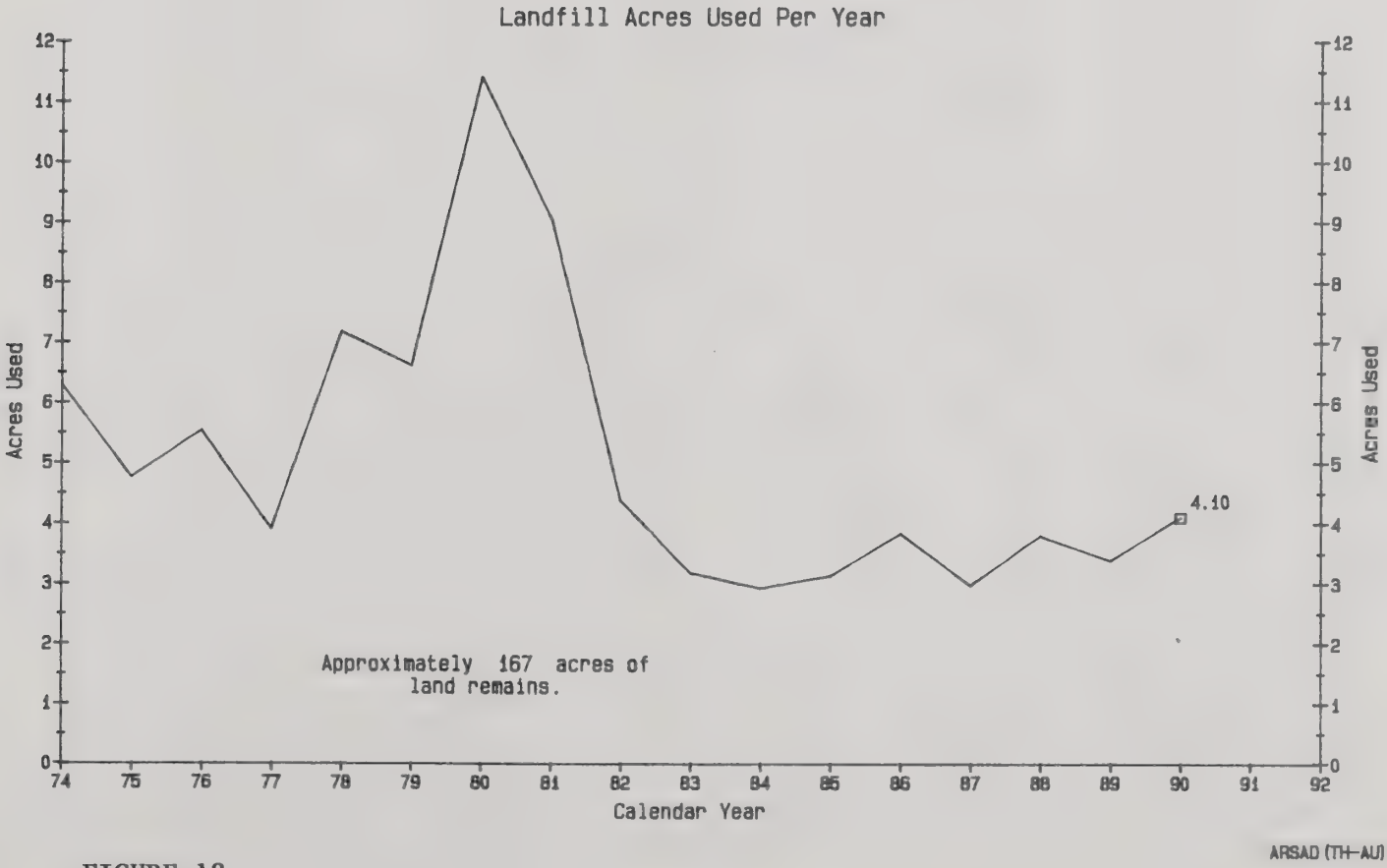


FIGURE 18

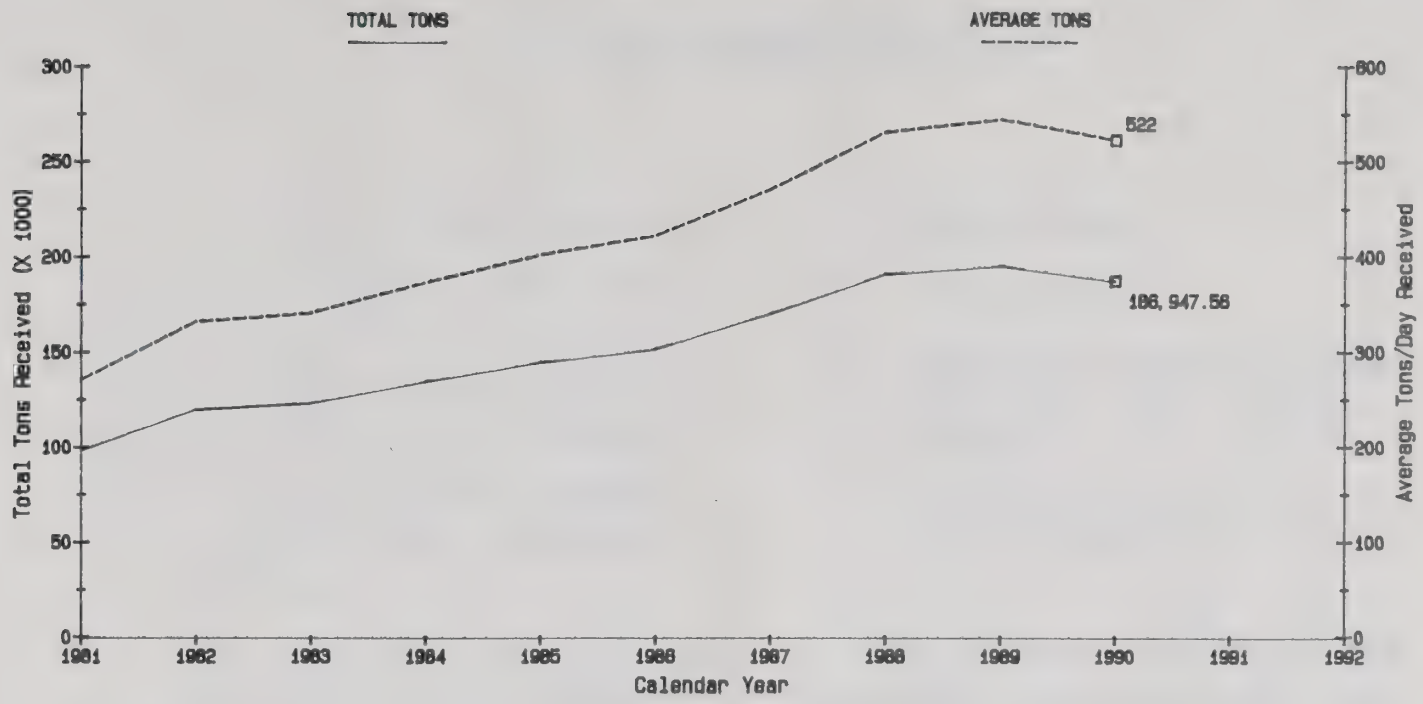


FIGURE 19

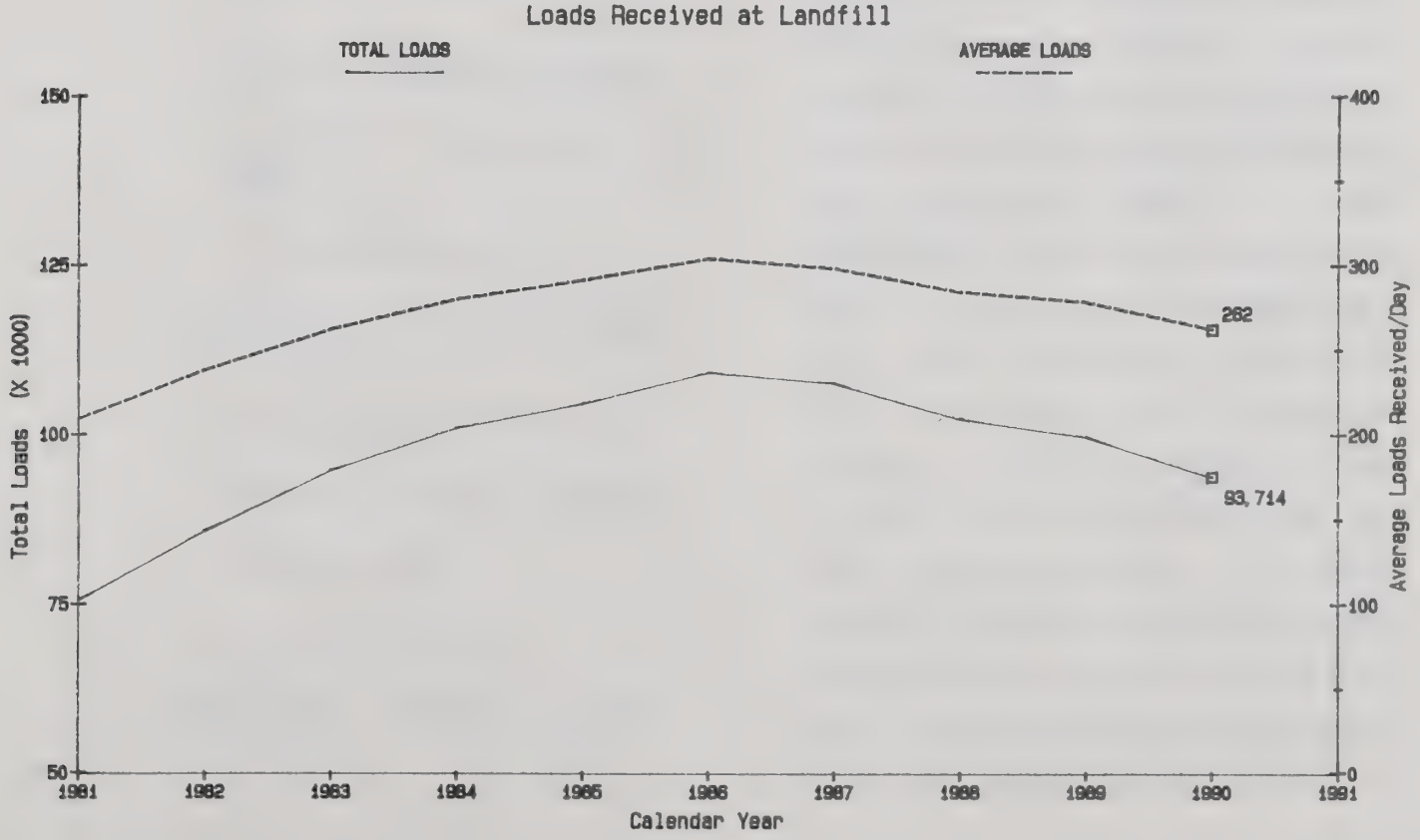


FIGURE 20

STREET AND SEWER DIVISION

The Street and Sewer Division is responsible for preventative and regular maintenance of the City streets and appurtenant facilities. This maintenance also includes emergency repair of damage to City maintained infrastructure caused by accidents, weather conditions, settlement or other unusual events.

The major maintenance activities of the Street Division are as follows:

1. Travelway Maintenance
   a) A/C Repair - Overlays - Chip Seal Coat
   b) Concrete Improvement Repair
   c) Installation & Maintenance of Signs
   d) Pavement Delineation
   e) Street Illumination and Electrical Maintenance
   f) Traffic signal light maintenance
   g) Electrical Maintenance Support
   h) Graffiti Eradication
2. Drainage Maintenance
3. Wastewater Collection System Maintenance
4. Street Sweeping
5. Weed Abatement
6. Town Center Mall East; Town Center Mall West; Stowell Lighting & Parking Maintenance District and the City's Parking District.

The Street and Sewer Division composition for period July 1, 1990 - June 30, 1991 included the following 25 personnel: one Street Superintendent, one Street & Sewer Supervisor, one Electrical Supervisor, four Crew Leader/Maintenance Specialists, one CL/MS Equipment Operator, one Electrician, one Traffic Signal Technician, two Motor Sweeper Operators, five Maintenance Worker II's, three Maintenance Worker I's and five Laborer III's, for a total personnel strength of twenty five. This division was augmented with three work aides during the summer months. Personnel assigned to the Electrical and Pavement Delineation and Sign Maintenance Section of the Street Division report daily to the Public Works Annex at 705 West Cypress. Other functions of the Street Division are dispatched from offices located at 810 West Church.

The City's Pavement Evaluation and Maintenance Management System enables the Street Division to maintain the approximately 350 lane miles of streets within the City system, using the latest computer techniques. Prepared reports summarize the present and expected future conditions of flexible pavement; suggested cost-effective maintenance strategies; and project costs for maintenance and/or repair of the City's flexible pavement system. The degree and type of maintenance for each street or portion thereof in the total City street system is determined by the Street Superintendent taking into consideration pavement evaluation and maintenance management system reports, local knowledge and experience, and monies available.

Proper planning and scheduling of routine preventative maintenance minimizes inconvenience to the public. Every effort is made to speedily correct hazardous conditions which can interfere with the safe flow of vehicular and pedestrian traffic. Safety for the public is a primary consideration.

1. TRAVELWAY MAINTENANCE

a. Asphalt repair, overlays - chip seal, fog seal: Annual travelway maintenance for Fiscal Year 1990-91 consisted of placing 798 tons (24% less material than 1989-90) of either SC/800 or 85/100 asphaltic concrete (A.C.) on City streets in need of repair. This activity involved the repair of potholes, water ditches and sewer ditches; and reconstruction of portions of streets in preparation for major maintenance program.

The overlay operation consisted of placing 8,443 tons of A.C. and 8 tons of emulsion to 69,081 square yards (s.y.) of City streets for a total cost of $225,368.92. This year the City cold planed 125,050 s.y. of roadway shoulder for a cost of $28,807.95. This operation is performed prior to the placement of asphalt overlay to provide a smoother transition between the new pavement and the concrete gutter line. In conjunction with the pavement overlay, reinforcing fabric and paint binder were applied to 33,885 s.y. of City streets at a cost of $34,760.25. The purpose of this treatment is to reduce reflective cracking and increase the life of the travelway. Other work associated with the overlay program included: removal and grade adjustment of water valves, sewer manhole covers, and survey monuments for a cost of $20,720.00; and contractor provided traffic control and final cleanup at a cost of $11,700.00. Total cost for street maintenance contract was $321,357.12.

b. Concrete Improvement Repair: This activity involved the repair of concrete improvements (sidewalks, curbs and

gutters) damaged by roots from City-owned street trees. The concrete repair crew is comprised of 2 3/4, plus one FT/PT man. The crew completed 51 (40% less than last year) work orders for a total of 11,511 square feet (s.f.). This is an area 13% smaller than last year. There were 151 service requests involving public and/or private property concrete improvements damaged by tree roots or city vehicles (an increase of 1.51% from last year). Temporary asphalt repairs are completed at all reported hazardous sidewalks. The repairs are made within a very short period of time (in most cases on the same day). Presently, the division has a backlog of approximately 1,630 known locations (a 6% increase over 1989-90 known locations) which require reconstruction as a result of street tree root damage.

c. Installation & Maintenance of Signs: This program includes all work performed to place and maintain signs installed within the public right-of-way. Signs are placed on City streets for the purposes of regulating, guiding, or warning vehicular and pedestrian traffic. The work consists of the purchase, fabrication, assembly, and installation of new signs; replacement, repair, and cleaning of existing signs. Signs are replaced or repaired when they become defective from wear and tear due to age, weathering, vandalism, and/or accidents. Following is a summary of this activity:

Type Sign	New or Install	Reface Sign Plate and Reinstall
Regulatory	400	257
Guide	94	186
Warning	242	87

d. Pavement Delineation: The pavement delineation program involves all work necessary to maintain and replace traffic lane delineation and other pavement markings. The work includes layout; eradication of conflicting markings; repainting of existing and painting of new pavement lane lines, street parking stripes, curbs designated for limited parking, pavement stencils (e.g., crosswalks, stop bars, advance warning legends, etc.) and City maintained off street parking stripes. This work is generally performed after the annual street maintenance program, unless a special circumstance dictates a more immediate response.

This activity required 2,201 gallons of traffic paint of various colors, (44% increase over 1989-90) and 4.25 tons of traffic beads (40% increase over 1989-90). The increased use of painting materials is due to the increase in traffic delineation requirements of the City and the reduced life of traffic paints resulting from requirements to change paint water base formulae.

e. Street Illumination: Street illumination is a major responsibility of the division consisting of the upkeep of 4,136 street lights (3.5% increase over Fiscal Year 1989-90).

This maintenance operation required the replacement of 473 photocells, 707 lamps (various sizes), 26 luminaires, and 51 street light standards. Also, included in this operation is the maintenance of City-owned parking lot lighting at the Town Center Mall including those lights in the two (2) public parking structures; two (2) City-owned public parking lots; the City Hall complex; and lighting maintained through funding from the Stowell Parking and Lighting District.

f. City-owned Traffic Signal Maintenance: Street Division Electrical Crew has the responsibility of maintaining 20 City-owned traffic signal systems. The remainder of the signalized intersections are maintained by CalTrans. During this period electrical maintenance personnel have received continuing formal instruction provided by the International Municipal Signal Association at Hollywood, CA or Laughlin, NV. On the job training is also a necessary ingredient to maintain current knowledge of the system operation and maintenance. This approach has qualified new electrical crew members to function as traffic signal technicians. The technicians inspect and maintain City operated systems; and they work with Engineering Division personnel to adjust traffic signal timing to facilitate a safe and orderly movement of traffic through street intersections. Call back operation has been coordinated by the section and response is initiated through the Police Department after normal working hours, weekends or holidays.

g. Electrical Maintenance Support: This activity provides electrical services, as required, to all City departments for installation of new machines, electrical circuits, modification of existing electrical circuits, and electrical equipment repair.

h. Graffiti Eradication: This program insures timely eradication of graffiti on private property block walls, fences, and buildings. The program includes recordation of service requests; measurement of reported graffiti; verification of property owners' names and addresses; transmittal of letters requesting authorization from property owners for City funded eradication of graffiti from their property; coordination and authorization of City contractors to eradicate graffiti writings; and final inspection of the completed sites for workmanship. During this reporting period, 333 property notices were mailed; the total square footage of graffiti eradicated by

contractor was 19,319 sq.ft. (a 50% decrease from last year) for a total cost of $8,526.87. This decrease was due to the reduction of graffiti writings.

2. DRAINAGE MAINTENANCE

The division maintains 68,680 lineal feet of underground drainage facilities (a 33% increase from figures reported in 1988-89). These systems reduce flooding at intersections of major arterials and other streets. Present maintenance operations include: flushing of 110 intersection culverts; grading and weed control of 10 major drainage ditches. This work is carried out twice annually by a two-man crew.

3. WASTEWATER COLLECTION SYSTEM

The Street and Sewer Division is responsible for maintaining approximately 151 miles of City wastewater collection main lines (a 4% increase over 1989-90). Preventative maintenance (flushing) was performed for 91,101 feet of sewer main (a 38% decrease from 1989-90).

City personnel responded on an emergency basis to 162 service requests to address sewer stoppages (a 25% increase from the amount reported in 1989-90). The number of service requests related to street tree root damage to private sewers increased by 35% over the prior year. Of those, staff found 65 to be City responsibility and 50 to be private property owner responsibility.

Prior to the end of this fiscal year, the division will have a new installation at the wastewater treatment plant to deposit main line debris collected from manholes by the City's new power rodder and vacuum truck. Regular operation of this equipment will permit a more extensive preventative maintenance program for main line sewers and hopefully reduce the number of emergency call outs for stoppages over the long term.

4. STREET SWEEPING

City residential streets were swept monthly on a bi-weekly schedule (sweeping one side of the street every other week). The business area streets were swept on a daily basis. The two new recirculating air, motorized sweepers and a backup motor sweeper were operated 475 sweeper days. The sweepers were not operating 45 days due to service repair, inclement weather, holidays, and vacation. The two sweepers and a backup sweeper removed and hauled to the landfill 3,385 tons of material (17% increase over 1989-90) from the City streets. The equipment used 24 gutter brooms and one (1) pick-up broom. The increase in

tonnage removed from the streets primarily due to the efficiency of the new type sweepers. The cost of this service is included in the Solid Waste Collection rates.

5. WEED ABATEMENT

The weed abatement program takes most of seven months to complete and is conducted in five phases:

I Early-fiscal year lot inspection

II Posting lots for herbicide weed abatement

III Application of herbicide weed control during mid fiscal year

IV Posting lots for weed abatement and debris removal, manually and/or with equipment

V Manual abatement of weeds and cleaning of lots. This phase runs into the following fiscal year.

All phases require the posting, compilation of cost records and cost segregation to assure proper billing forwarded to the owners of treated vacant lots (294 lots in 1990). The records and spread of costs were forwarded to the City Clerk for filing of assessments against the properties. The area included in the herbicide weed abatement program during Fiscal Year 1990-91 was 3,501,372 s.f.; this was a decrease of 15% from last year. The cost of the 1990-91 program was $16,176.34. The decrease in square footage treated is due to building construction on vacant lots.

The hand cleaning weed abatement program consisted of cleaning 19 lots for a total cost of $1,878.09. Total cost of Abatement Program for 1990-91 was $18,054.43.

6. TOWN CENTER MALL EAST, TOWN CENTER MALL WEST, STOWELL PARKING & LIGHTING DISTRICT AND CITY OF SANTA MARIA PARKING DISTRICT

The maintenance activities for the Santa Maria Town Centers and Stowell Shopping Center landscaping and parking areas are primarily performed by private contractors. The administration is provided by the Street and Sewer Division. The division provides quality control through inspection and comparison of work with contract specifications. The division reviews payment requests and monitors expenditures. Performance by contractors is periodically compared to establish standards. The contractors are notified of deficiencies and appropriate follow-up inspections are conducted as necessary.

The division is responsible to provide staff, materials, and equipment to address certain types of additional maintenance

and/or call back maintenance service requests. The nature of each situation dictates the appropriate response time. All service requests requiring response by City personnel were handled on a timely basis. City personnel support to the Santa Maria Town Center Mall by the Street Division consisted of 247 administrative staff hours at a cost of $5,931.77; 730 maintenance staff hours at a cost of $10,531.52; and 363 equipment hours at a cost of $1,956.97. The total cost to provide for the aforementioned support was $18,420.26 for Fiscal Year 1990-91.

The Parking District provides funds to maintain City-owned public parking lots described as follows:

1) 200 Blk. West Chapel (southeast corner Chapel and Pine)
2) 200 Blk. East Main (north side)

This activity consisted of maintenance work performed on existing pavement, pavement markings, signs, concrete improvements and parking lot lights. The parking lot sweeping and landscape maintenance was performed by contractor.

ATTACHMENTS

Figure 21 - depicts the personnel composition and maintenance responsibilities of the Street and Sewer Division.

Figure 22 - depicts the total staff hours for the maintenance responsibilities of the Street and Sewer Division.

Figure 23 - depicts the staff hours required for various maintenance activities of the maintenance section of the Street and Sewer Division.

Figure 24 - depicts the staff hours required for various maintenance activities of the Electrical and Traffic Section of the Street and Sewer Division.

Figure 25 - depicts the maintenance staff hours for electrical support to various City departments and subordinate divisions.

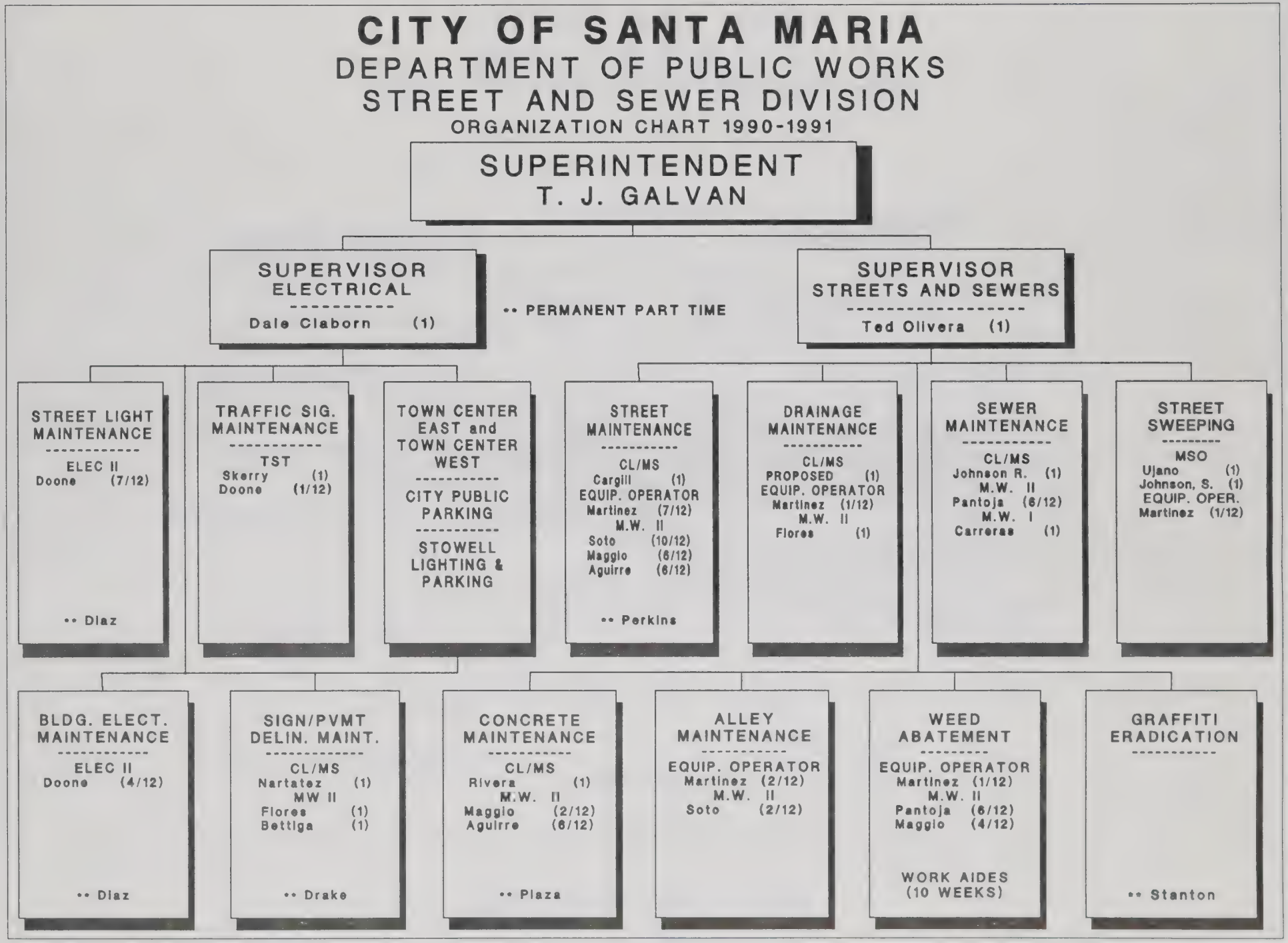
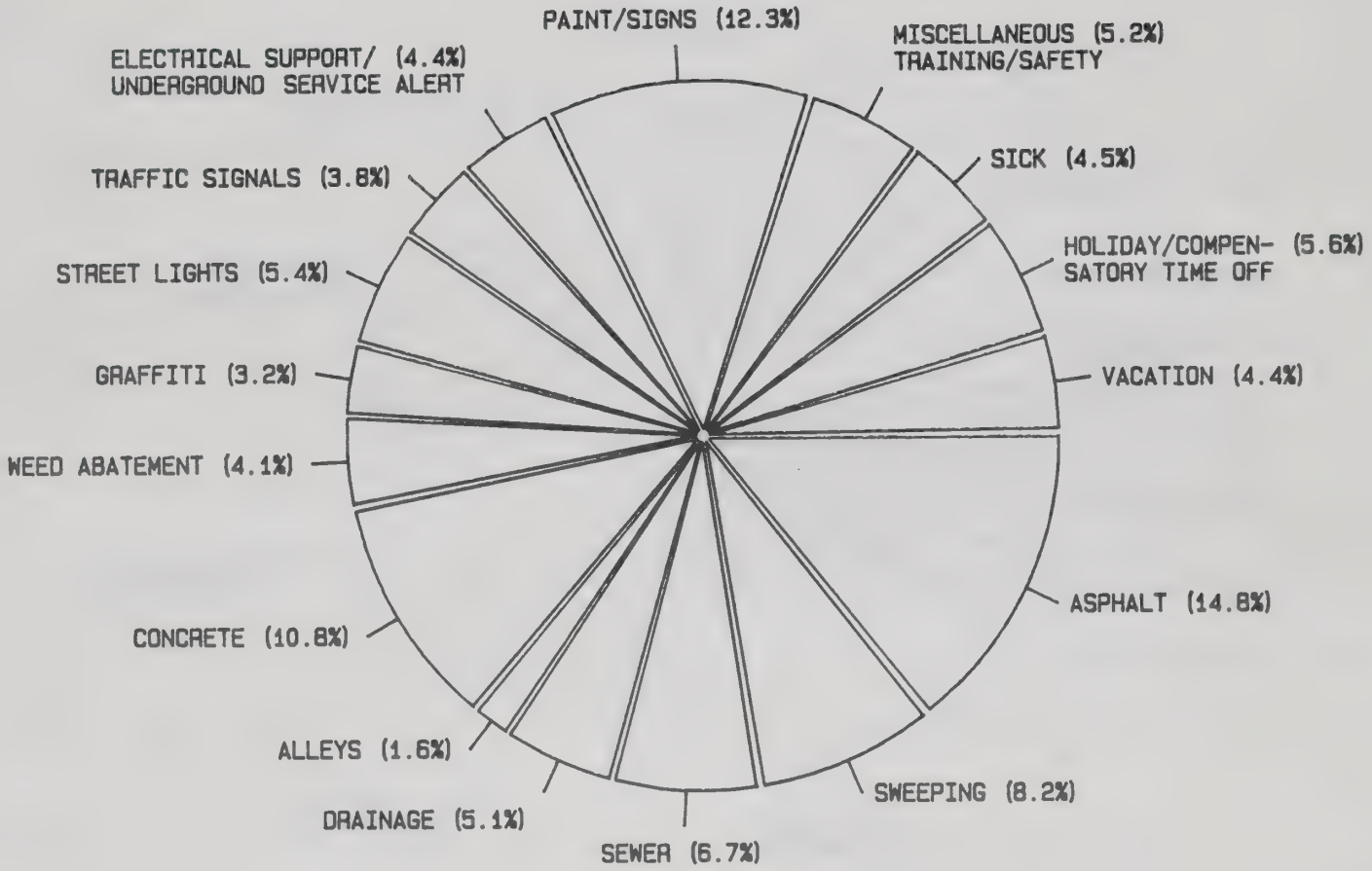

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
STREET AND SEWER DIVISION
ORGANIZATION CHART 1990-1991
SUPERINTENDENT
T. J. GALVAN
SUPERVISOR
ELECTRICAL
Dale Claborn (1)
•• PERMANENT PART TIME
SUPERVISOR
STREETS AND SEWERS
Ted Olivera (1)
STREET LIGHT MAINTENANCE
ELEC II
Doone (7/12)
•• Diaz
TRAFFIC SIG. MAINTENANCE
TST
Skerry (1)
Doone (1/12)
TOWN CENTER EAST and TOWN CENTER WEST
CITY PUBLIC PARKING
STOWELL LIGHTING & PARKING
STREET MAINTENANCE
CL/MS
Cargill (1)
EQUIP. OPERATOR
Martinez (7/12)
M.W. II
Soto (10/12)
Maggio (6/12)
Aguirre (6/12)
•• Perkins
DRAINAGE MAINTENANCE
CL/MS
PROPOSED (1)
EQUIP. OPERATOR
Martinez (1/12)
M.W. II
Flores (1)
SEWER MAINTENANCE
CL/MS
Johnson R. (1)
M.W. II
Pantoja (6/12)
M.W. I
Carreras (1)
STREET SWEEPING
MSO
Ujano (1)
Johnson, S. (1)
EQUIP. OPER.
Martinez (1/12)
BLDG. ELECT. MAINTENANCE
ELEC II
Doone (4/12)
•• Diaz
SIGN/PVMT DELIN. MAINT.
CL/MS
Nartatez (1)
MW II
Flores (1)
Bettiga (1)
•• Drake
CONCRETE MAINTENANCE
CL/MS
Rivera (1)
M.W. II
Maggio (2/12)
Aguirre (6/12)
•• Plaza
ALLEY MAINTENANCE
EQUIP. OPERATOR
Martinez (2/12)
M.W. II
Soto (2/12)
WEED ABATEMENT
EQUIP. OPERATOR
Martinez (1/12)
M.W. II
Pantoja (6/12)
Maggio (4/12)
WORK AIDES
(10 WEEKS)
GRAFFITI ERADICATION
•• Stanton

FIGURE 21

CITY OF SANTA MARIA

STREET AND SEWER DIVISION

STAFF HOUR UTILIZATION REPORT 1990-1991

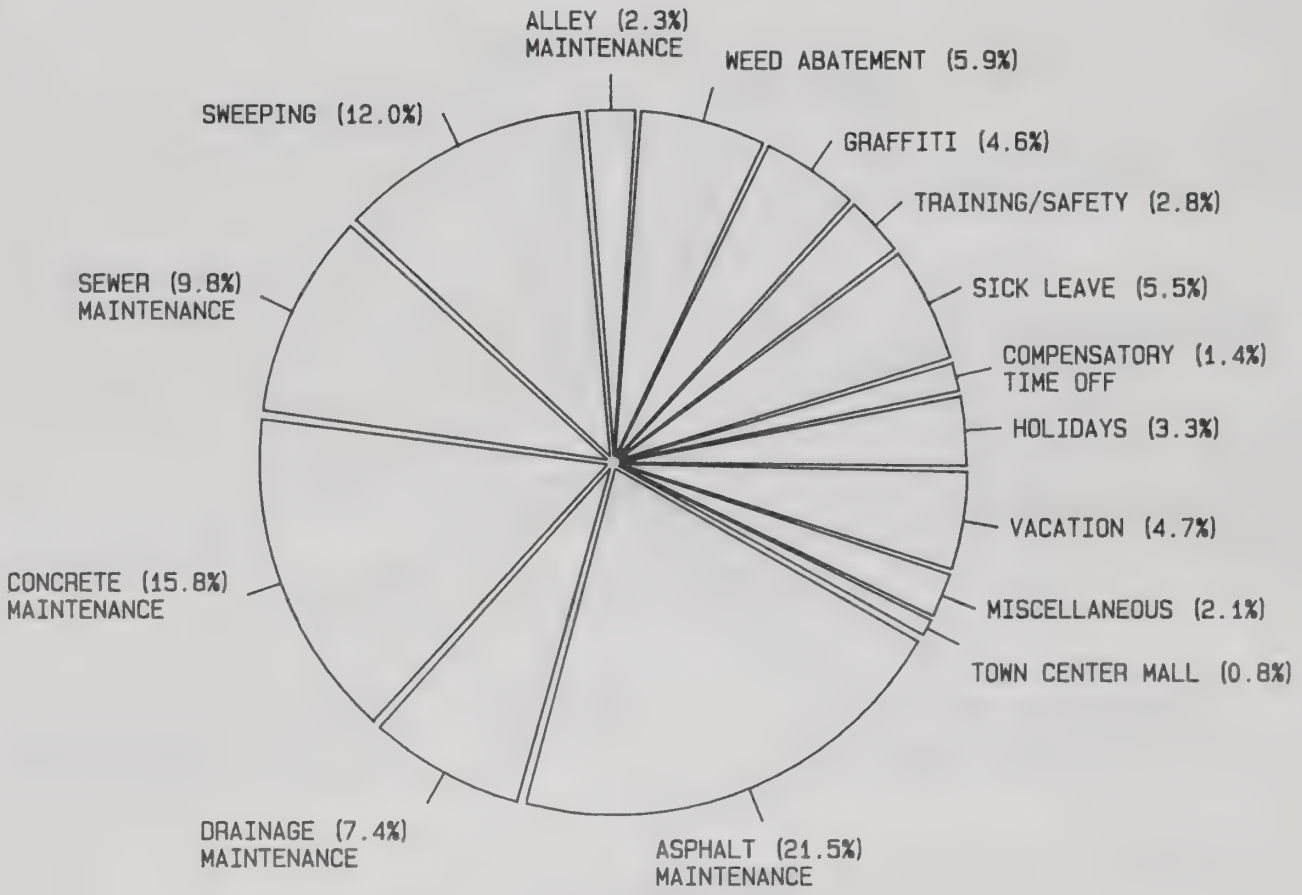


TOTAL STAFF HOURS 49,748

FIGURE 22

CITY OF SANTA MARIA

STREET AND SEWER DIVISION
MAINTENANCE SECTION
STAFF HOUR UTILIZATION REPORT 1990-1991



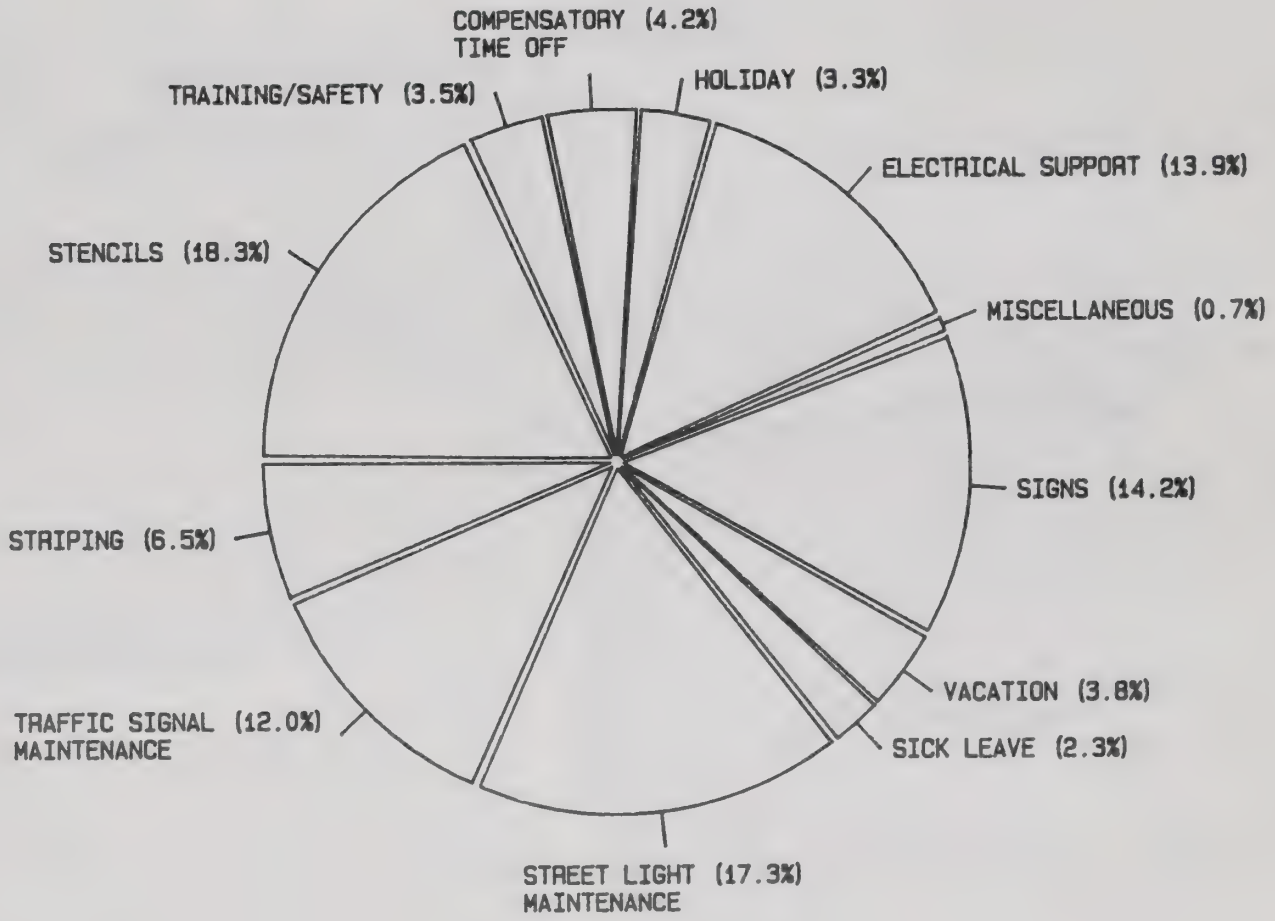
TOTAL STAFF HOURS 34, 167

FIGURE 23

FIGURE 24

CITY OF SANTA MARIA

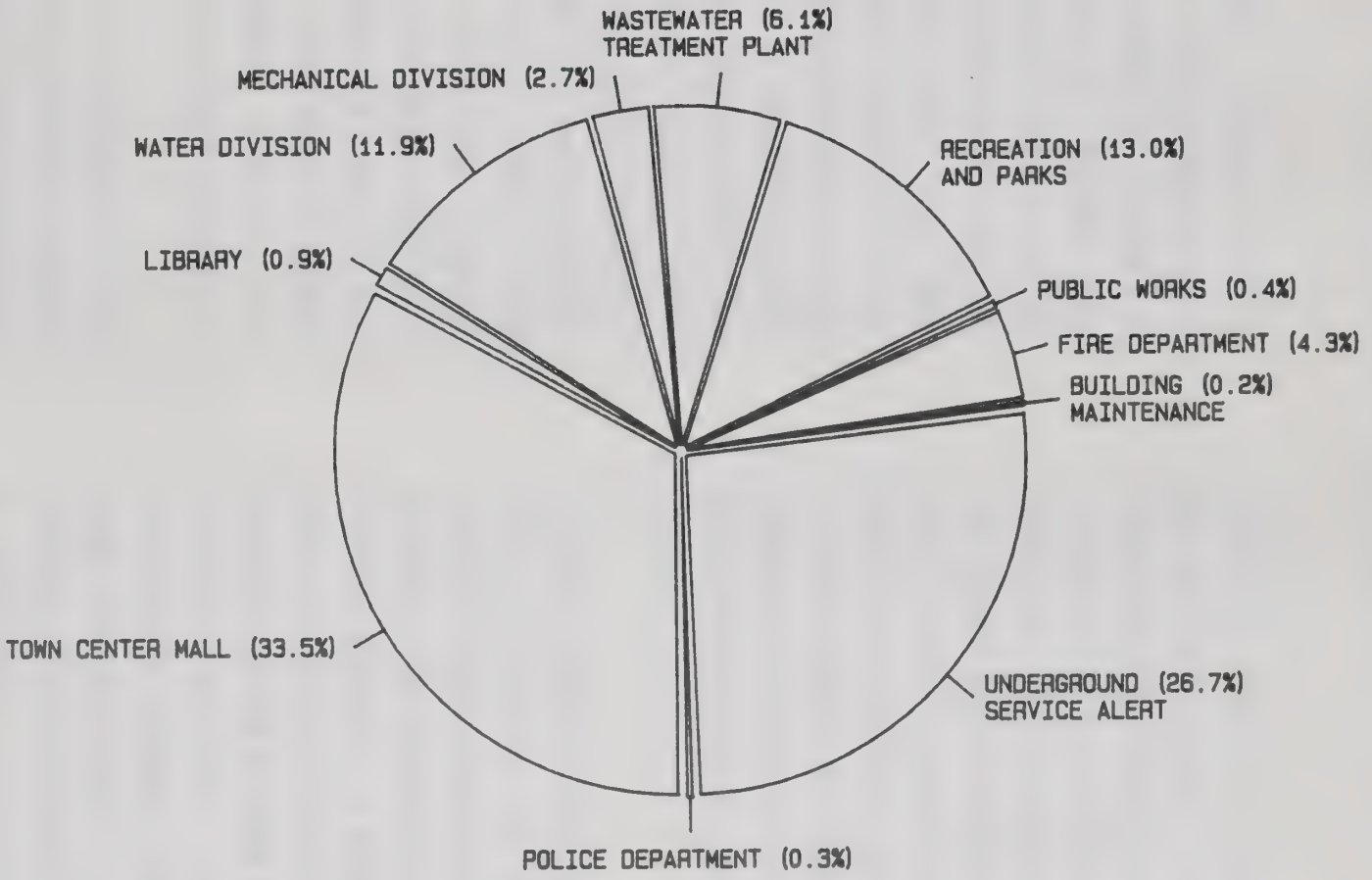
STREET AND SEWER DIVISION
ELECTRICAL AND TRAFFIC SECTION
STAFF HOUR UTILIZATION REPORT 1990-1991



TOTAL STAFF HOURS 15,581

CITY OF SANTA MARIA

STREET AND SEWER DIVISION
ELECTRICAL MAINTENANCE SUPPORT
STAFF HOUR UTILIZATION REPORT 1990-1991



TOTAL STAFF HOURS 2,167.5

FIGURE 25

WASTEWATER TREATMENT DIVISION

The Wastewater Treatment Plant is located on Black Road approximately 2.5 miles west of Santa Maria. Its purpose is to economically treat all domestic and industrial waste collected and conveyed by the wastewater collection system. A wastewater treatment facility has been operated by the City at this site since 1910. The present facility has a design capacity of 7.8 million gallons a day (MGD) which should be sufficient until mid 1995. This capacity will serve a population of 75,000 inhabitants including design capacity for industrial discharge. The past year's daily average flow was 5.92 MGD; a 0.9% increase over the previous year. Service is provided primarily to residential, commercial and industrial customers within the City limits. There are some minor exceptions covered by agreement with the Santa Barbara County Laguna Sanitation District.

This past year the plant's primary and secondary treatment processes removed from the wastewater (influent) 89% of the suspended solids (ss) and 89% biological oxygen demand (BOD). All plant treated discharge (effluent) is disposed of on City property. Plant effluent is suitable for irrigation of permanent non-dairy pasture land and fodder crops. The effluent is discharged to 60 acres of holding ponds, and to 40 acres of pasture land owned by the City, but operated by the Santa Maria High School Future Farmers of America (F.F.A). The F.F.A. pasture their sheep on the acreage. In exchange, the F.F.A. takes on the responsibility to disburse the water, provide weed control, and maintain banks, levees, and fences on the 40 acres of City property.

Between July 1, 1990, and June 30, 1991, an estimated 5.3 MG of raw, thickened sludge containing approximately 6% solids was pumped to the plants anaerobic digesters for treatment. The digestion process provided a 54% volatile reduction, with the digested sludge being dried in earthen beds. It has been proposed that a suitable method of dried sludge disposal would be as a soil amendment. The City currently contracts on an annual basis for sludge disposal with a local farmer.

There were several major maintenance projects completed during this past year.

The Secondary Clarifier #1 was emptied, and all metal surfaces were blasted and re-coated. Digesters #2 and #3 were emptied and cleaned. Digester domes and associated gas lines and equipment were replaced and outfitted with stainless steel equipment. Digester #2 external PVC gas mixing lines were replaced with stainless steel. A major portion of the underground gas lines from the mixing compressors to Digesters #2 and #3 were replaced.

During this past year, the treatment plant has been maintained and operated by one Plant Manager, one Maintenance Supervisor, one Laboratory Chemist, one Source Control Inspector, three Operators, one part time "Operator in Training", one full time "Operator in Training", one Wastewater Specialist, one part time clerk, and one part time janitor. All plant operations personnel are licensed by the California State Water Resources Control Board as Wastewater Treatment Plant Operators.

The data shown in Figure 27 is reported from analyses performed in the State accredited on-site laboratory. Certain analyses are required by the State Water Quality Control Board. Others are performed to aid in plant operations and/or check plant efficiency or indicate where more source control is needed. In addition, tests were performed on industrial waste discharges to the wastewater collection system. These are necessary to verify compliance with discharge ordinances and/or to determine fees based on wastewater strength determinations. Annual analyses mandated by the State Water Quality Control Board to check for "heavy metals", chlorinated hydrocarbons, and other parameters beyond the scope of the treatment plant laboratory are sent out and completed by a commercial laboratory.

Capital Improvements

Capital improvements this fiscal year were primarily limited to construction of two concrete vaults on the west side of Digester #1. One vault provides access to a manhole in the side of the digester, and the other provides access to a valve on a sludge line.

Revenue

Revenue from septage truck dumping at the treatment plant amounted to $31,247.

Operation Cost Figures

The total cost for plant operation during the fiscal year was $1,022,745. This amount does not include an expenditure of $250,340 for General Administration Services, nor expenditure of $1,497,230 from reserves to address emergencies and replace fixed assets.

During Fiscal Year 1990-91 there were 2,162,510,000 gallons (5.92 MGD) of wastewater treated at a maintenance and operations cost of $472.94 per million gallons (not including general administration or reserves). This cost per million gallons is a 28.8% decrease in costs experienced last fiscal year. The decrease is attributed to a reduction in major repair/renovation projects.

Figure 28 shows the comparative measurement of flow and costs of operation over past years. Those cost figures do not reflect capital outlay items during the year, nor do they reflect the annual amount of funding reserved for emergencies and fixed asset replacement. The cost of wastewater treatment including general administrative services and reserves was $1,281.06 per million gallons.

Industrial Source Control - 1990-91

The Industrial Source Control Section is comprised of one full-time Inspector and a part-time clerk/computer aide. The section is responsible for conducting the Pretreatment Program in compliance with Federal, State and Local Pretreatment regulations. The Inspector provides information and assistance to engineers, architects, contractors, industrial users and the general public about objectives of the City's Pretreatment Program. Source Control is also responsible for inspecting, monitoring and permitting any discharges which enter the Santa Maria wastewater system. The goal of the program is to provide a first line of defense to protect the environment and groundwater basin from hazardous material being discharged into the sewer system (which indirectly recharges the basin after reclamation).

Approximately 671 files containing concise information as required by Program requirements are maintained on industries and businesses. A breakdown of the various classes and amount of those currently permitted, are outlined below:

Class I	Inactive, Not on the City Sewer system. Total in Class I: 18 Permitted: No Permit Required
Class II	Non-Industrial Discharger, sanitary sewage discharged only. Total in Class II: 258 Permitted: No Permit Required
Class III	Industrial Discharger with a flow less than 25,000 GPD. Total in Class III: 343 Permitted: 133 Need Permit: 210*
Class IV	Industrial Discharger with a flow greater than 25,000 GPD or considered EPA Categorical Industry. Total in Class IV: 12 Permitted: 12

* The Pretreatment Program is committed to having all discharges permitted by July 1, 1992, and has taken the necessary action to accomplish this goal.

One hundred nineteen Wastewater Discharge Permit Applications were mailed out during the fiscal year. Applications were sent to new businesses and to update those presently on file. A breakdown of applications received is as follows:

Class II	Class III	Class IV	Exempt From Permitting Process
31	77	6	5

There were a total of 76 inspections performed during this fiscal year. A breakdown of the various inspections can be found in the following table:

INSPECTIONS			
Complaint	Routine	Compliance Grease/Sand/Oil Interceptor	Pretreatment Systems
18	10	22	26

All Class IV and Categorical Industries are required to submit self-monitoring reports. These reports are reviewed on a monthly basis and 17 notices of violations were issued. Compliance was obtained on all 17 for 1990-91. The Source Control section conducted tests on 26 samples form Class IV dischargers during the year. Source Control continues to sample these and other industries/businesses periodically to ensure compliance with Federal, State, and Local discharge limitations.

The Pretreatment Program guidelines were revised as required by Environmental Protection Agency and Water Quality Control Board during 1990-91.

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
WASTEWATER TREATMENT DIVISION
ORGANIZATION CHART 1990-1991

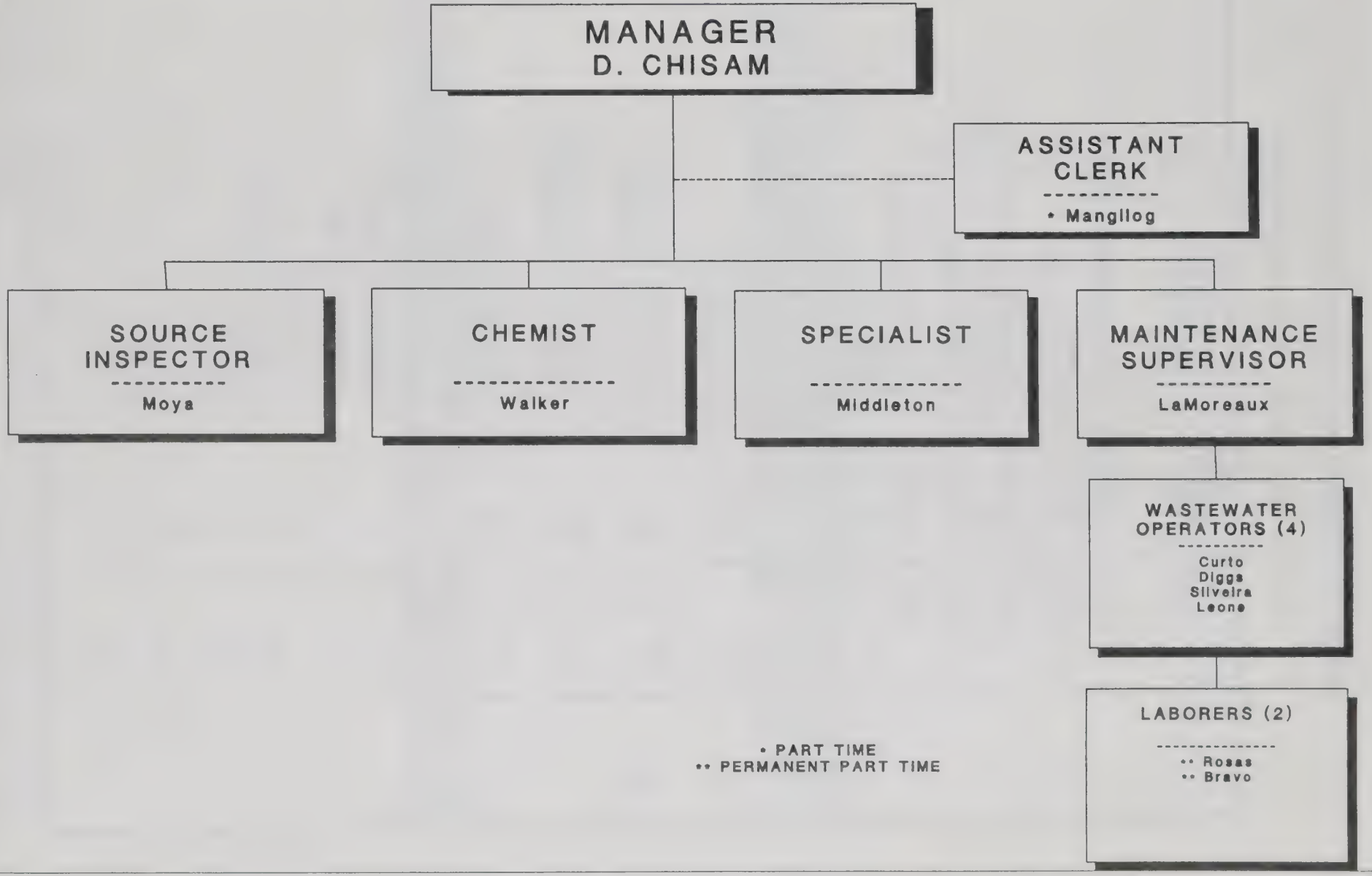


FIGURE 26

WASTEWATER TREATMENT PLANT LABORATORY REPORT

FISCAL YEAR JULY 1, 1990 TO JUNE 30, 1991

Total Flow	2162.51	MG	
Daily Average	5.92	MGD	
Days	365		
Gas Production Metered	14,150,634	Cu.Ft.	
Days	181		
Daily Average	78,180	Cu.Ft.	
Gas Production Calculated	18,994,900	Cu.Ft.	
Days	184		
Daily Average	103,233	Cu.Ft.	
Total Electricity Used	1,621,310	KHW	
Days	368		
Daily Average	4,442	KHW	
- WASTEWATER ANALYSIS - (mg/1 unless otherwise indicated)	**Total Analyses**	**Average**	**% REM**
BOD (influent)	28	277	
BOD (effluent)	47	30	89
Suspended Solids (inf)	30	295	
Suspended Solids (eff)	52	31	89
Settleable Solids (ml/l) (inf)	363	9.8	
Settleable Solids (ml/l) (eff)	363	< 0.1	
pH (no units) (Inf)	363	8.0	
pH (no units) (eff)	363	7.8	
- Effluent Water Analysis -			
TDS by Conductance	361	1,417	
Dissolved Oxygen	23	4.8	
Grease & Oil	52	0.7	
Total Dissolved Solids	14	1,512	
Boron	2	0.45	
Chlorides	14	384	
Sulfates	2	380	
Sodium	12	291	

FIGURE 27 (1 of 4)

Sludge Analyses Next Page

WASTEWATER TREATMENT PLANT LABORATORY REPORT

FISCAL YEAR JULY 1, 1990 TO JUNE 30, 1991

- SLUDGE ANALYSIS -	Total Analyses	Average
Raw Thickened Sludge		
% Solids	149	6.42
% Volatile Solids	146	76.17
#1 Sludge Digester		
Volatile Acids (mg/l)	52	105
Alkalinity (mg/l)	52	2188
pH	52	7.2
% Solids	44	1.18
% Volatile Solids	43	53.97
% Volatile Reduction		63.32
#2 Sludge Digester		
Volatile Acids (mg/l)	47	108
Alkalinity (mg/l)	47	3572
pH	47	7.2
% Solids	97	2.53
% Volatile Solids	96	61.40
% Volatile Reduction		50.24
#3 Sludge Digester		
Volatile Acids (mg/l)	30	138
Alkalinity (mg/l)	30	3572
pH	30	7.3
% Solids	85	2.61
% Volatile Solids	84	62.14
% Volatile Reduction		48.66

FIGURE 27 (2 of 4)

Source Control Analyses Next Page

WASTEWATER TREATMENT PLANT LABORATORY REPORT

FISCAL YEAR JULY 1, 1990 TO JUNE 30, 1991

- SOURCE CONTROL ANALYSIS - (mg/l unless otherwise indicated)	Total Analyses	Average
- Arrow Automotive		
Biological Oxygen Demand	1	169
Chemical Oxygen Demand	1	833
Suspended Solids	2	171
Grease & Oil	2	11
Total Dissolved Solids	1	1158
- Culligan Water Conditioning (L)		
Chemical Oxygen Demand	1	53
- Culligan Water Conditioning (SM)		
Chemical Oxygen Demand	2	511
- Helical Products		
Chemical Oxygen Demand	2	7715
Suspended Solids	3	649
Grease & Oil	3	571
- Lingenfelder's Servisoft		
Chemical Oxygen Demand	1	1302
- Microwave Applications Group		
Chemical Oxygen Demand	1	7
- Mission Linen Supply		
Biological Oxygen Demand	5	342
Chemical Oxygen Demand	1	807
Suspended Solids	5	175
Grease & Oil	5	23
Total Dissolved Solids	1	3149
- Ramsey Laboratories		
Biological Oxygen Demand	4	1685
Chemical Oxygen Demand	1	3185
Suspended Solids	4	189
Chlorine Residual	1	46
- Rayne Water Conditioning		
Chemical Oxygen Demand	1	813
- Santa Barbara Research		
Chemical Oxygen Demand	1	446

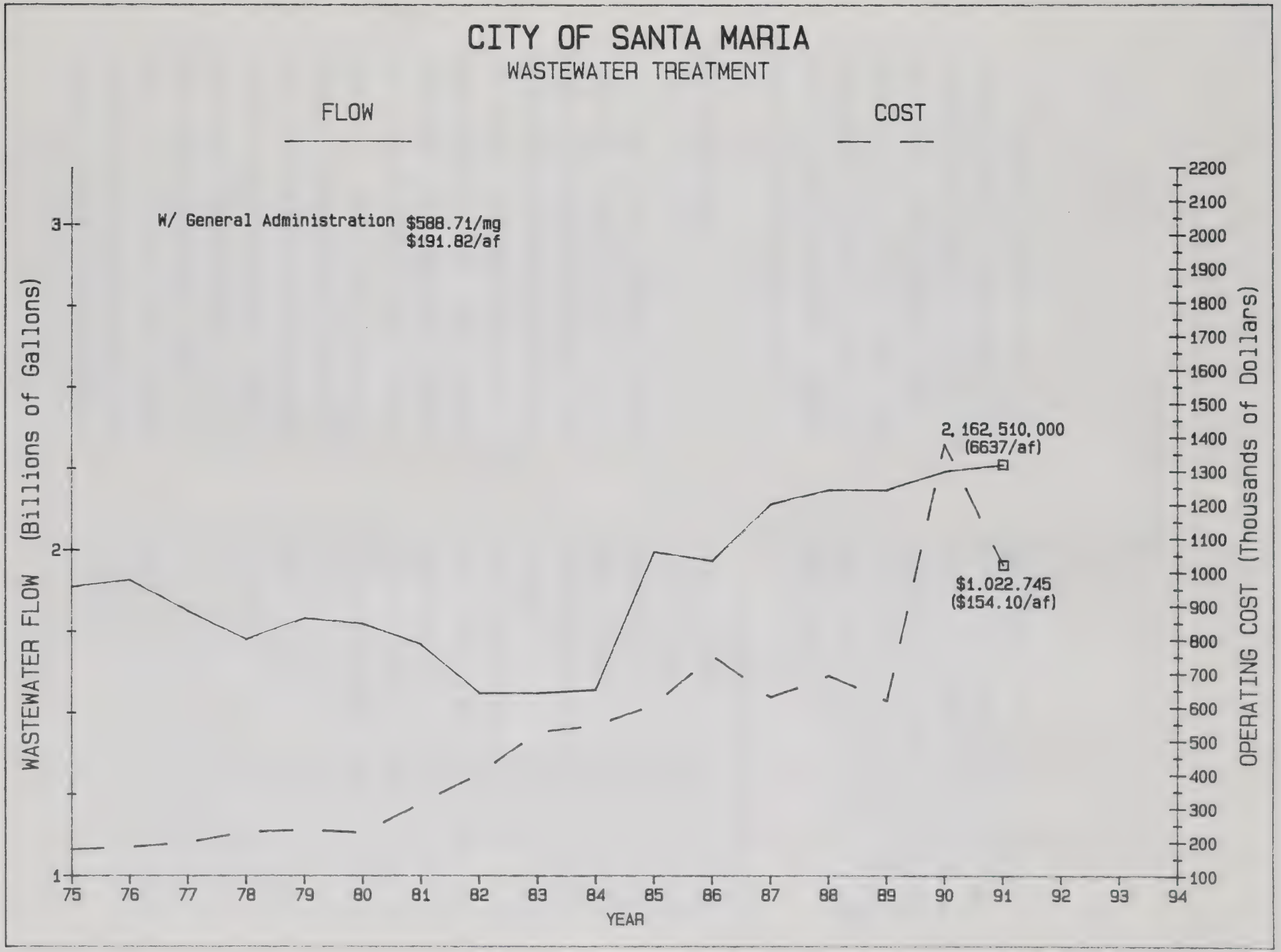
FIGURE 27 (3 of 4)

WASTEWATER TREATMENT PLANT LABORATORY REPORT

FISCAL YEAR JULY 1, 1990 TO JUNE 30, 1991

- SOURCE CONTROL ANALYSIS - (mg/l unless otherwise indicated)	Total Analyses	Average
- Santa Maria Chili		
Biological Oxygen Demand	6	413
Chemical Oxygen Demand	5	1583
Suspended Solids	8	641
Total Dissolved Solids	3	1206
- Santa Maria Times		
Chemical Oxygen Demand	2	9605
- Septage Trucks		
Chemical Oxygen Demand	4	30198
Valadez Sanitation Service pH	153	8.2 pH Units
BFI United Western pH	522	8.6 "
Portable Johns, Inc. pH	135	8.5 "
Mission Sanitation pH	52	8.0 "
County Sanitation pH	111	7.5 "
- Simplot Foods		
Biological Oxygen Demand	4	396
Chemical Oxygen Demand	1	1312
Suspended Solids	4	105
- Tracor Aviation		
Chemical Oxygen Demand	1	11

FIGURE 27 (4 of 4)


CITY OF SANTA MARIA
WASTEWATER TREATMENT
FLOW
COST
W/ General Administration $588.71/mg
$191.82/af
2,162,510,000
(6637/af)
$1,022,745
($154.10/af)
WASTEWATER FLOW (Billions of Gallons)
OPERATING COST (Thousands of Dollars)
YEAR
1
2
3
100
200
300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
75
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93
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FIGURE 28

WATER DIVISION

The Water Division provides water service to citizens of the City of Santa Maria. Exceptions to this are the southern area of the City (Sunrise Hills) which is served by a private company and some county sites adjacent to the city which are served by the city. The Division is organized into two sections, Production and Distribution.

Production Section

The water production facilities consist of 10 water wells, four booster pumps, two elevated storage reservoirs (13 MG total) and two ground storage reservoirs (2.5 MG total). The City has a combined storage capacity of 15.5 million gallons. The system also includes an electronic control panel at the Public Works Department office with telemetering capability which automatically controls the pumps, monitors the level of the reservoirs and the pressure in the distributions system. Additionally, the control panel has an alarm system that is electronically monitored on a 24-hour basis. This feature enables personnel to respond quickly to emergency equipment failures. Total production capability with all wells (except 2-AS, 3H, & 4H) is 17.1 million gallons per day. Production capability has reduced by approximately one million gallons per day due to decline of the water table resulting from a fifth consecutive year of below average rainfall.

Test results from Wells 3-H and 4-H continue to indicate the presence of nitrate above the State's established maximum contaminate level. Because of the high nitrate levels, these wells have been taken out of service and are in a standby mode of operation. They will not be used until further testing indicates a reduction of the nitrate level or an approved blending plan can be implemented. Well 2-AS remains in a standby mode due to the presence of Trichlorethylene (TCE). We have a blending plan which has been approved by the California Department of Health Services, but we have chosen to leave the well out of service. Operation of these three wells would add approximately three million gallons per day to the City's production capability.

The design of a new well (Well 12-S) has been completed and it is expected to be operational prior to the summer months of 1992. Additionally, in an attempt to find a higher quality water without nitrates at the McClelland well field, a 1000' deep test well has been designed and will be drilled during the winter months of 1992.

During the Fiscal Year 1990-91 the wells produced an average of 10.4 million gallons per day to satisfy the customers' demands. The combined well production and reservoir capacity must also supply peak demand. The highest peak day demand recorded to date was 17.35 million gallons. The total production for the year was 3.8 billion gallons (11,699 AF). This reflects a decrease of 6.5% from the previous fiscal year.

For system backup, two inter-connections exist between the City's system and the California Cities Water Company's system serving mainly the unincorporated area. One is near Santa Maria Way and Miller Street and the other is on California Boulevard south of Foster Road. Additionally, during the Fiscal Year 1990-91 a 400 KW portable generator was purchased and switch gear installed at Wells 7-S and 10-S. The unit will provide portable, emergency electrical power for pumping during electrical power outages.

Distribution Section

The water distribution section is responsible for transporting water from the well and reservoir facilities to over 14,925 accounts (an increase of 2.8% during the fiscal year). This is accomplished by utilizing a distribution piping system which is approximately 241 miles long (an increase of 2.8% during the fiscal year). This section also performs the following functions: meter reading; customer service; collection of delinquent bills; meter installation, maintenance, and repair; installation of water services; and maintenance of the distribution facilities in their entirety. The income from all water sold during the fiscal year is shown on Figure 30. Work order totals of the various water division functions during the Fiscal Year 1990-91 are listed as follows:

Function	No. Completed
1. Water meter readings	89,011
2. Water service turn-ons	3,433
3. Water service turn-offs	3,295
4. Collection (delinquent bills)	2,344
5. Water meter re-reads	2,483
6. Miscellaneous service calls	1,241
7. New service line and taps install	15
8. Water meters installed	1,279
9. Water meters removed	916
10. Water meters repaired in shop	449
11. Large meters tested & repaired in field	20
12. Renovation of water meter locations	876
13. Ball valves installed	957
14. Water meter vaults installed & replaced	175
15. Water line leaks repaired	62
16. Flushing dead-end stations	160
17. Flushing fire hydrants	173
18. Fire hydrant repairs, painting & maint.	262
19. Main line gate valves operated	1,662

Water Quality

On-going monitoring and testing of the City's water system is performed on a routine basis to assure that the water is of good quality and is within the allowable limits set as maximum contaminant levels (MCL) by the California Department of Health Services. Chlorine gas is mixed with the water at each well and is carried throughout the system to maintain a residual of .1 parts per million (ppm = .1 milligram per liter, mg/l) of free chlorine at the extremities of the distribution system. This minimum amount of free chlorine is a positive indicator that any pathogenic contaminants that might have entered the system from unknown sources will have been neutralized through exposure to the chlorine. Following is a listing of tests that are performed to ensure that the quality of the water continually meets all health standards as set forth by the California Department of Health Services.

1. **GENERAL MINERAL**: Samples are collected and analyzed annually from each well source and the distribution sampling station located in the 1400 block of East Alvin. Figure 32 is a plot of the average system concentration of total dissolved solids over the recent years.

2. **GENERAL PHYSICAL**: Four samples are collected and analyzed per month on a rotating basis from 15 sampling stations located throughout the distribution system.

3. **INORGANIC CHEMICAL**: Samples are collected and analyzed from one third of the wells annually on a rotating basis so that all wells are sampled every three years.

4. **BACTERIOLOGICAL**: Fifteen samples are collected and analyzed weekly from the distribution system's 15 sampling stations.

5. **TRIHALOMETHANES**: One sample is collected and analyzed quarterly from the distribution sampling station which is located at North Broadway and Preisker Lane.

6. **VOLATILE ORGANICS**: One sample is collected and analyzed quarterly from each well source every three years.

7. **RADIOLOGICAL**: Three wells are sampled and analyzed quarterly every four years; the wells sampled include one well from the South McClelland well field and two wells from the Airport well field.

Investigation is still continuing into the presence of TCE found in Well 2-AS. An engineering report was submitted to and approved by the California Department of Health Services on November 12, 1985, that would allow a method of blending water from Well 2-AS with water from uncontaminated well sources should the need to do so arise from production deficiencies. At this point, the City has not had to use this option and the well has been left off and is in standby mode of operation. After the new well (12-S) is completed and operational the equipment at Well 2-AS may be removed and the well could then be properly abandoned.

The State Department of Water Resources (DWR) completed the Environmental Impact Report (EIR) for the Coastal Branch of the State Water Project (SWP) in 1991. Delivery of water is anticipated in 1996. Significant system improvements would be constructed concurrently with the SWP including transmission lines with distribution lines and additional storage. The concentration of total dissolved solids (TDS) of the water provided through the SWP would be significantly lower than that received from City production wells (less than 500 ppm).

The CROSS CONNECTION CONTROL PROGRAM is a program required by the State Health Department to protect the public water supply from potential sources of contamination: Any connection that could permit toxic or pathogenic material, or materials objectionable to taste and odor, to enter the public water system.

The following quantities of "backflow prevention" work orders were performed this past year.

* Total number of device in system	779
* Number installed during fiscal year	41
* Number tested during fiscal year	647
* Number repaired during fiscal year	92

The City publishes annually a summary of the average quality of the water distributed through City maintained water facilities. Copies of the report are provided for review by the City Water customers. A copy of that summary has been attached and is labeled Exhibit A.

Revenue and Expenditure

Figure 30 is a plot of annual revenue, costs, and amount of water production. The cost per acre foot reflects costs of operation and maintenance of the system, overhead, and repair or replacement of deficiencies in the existing system. No new capital outlay

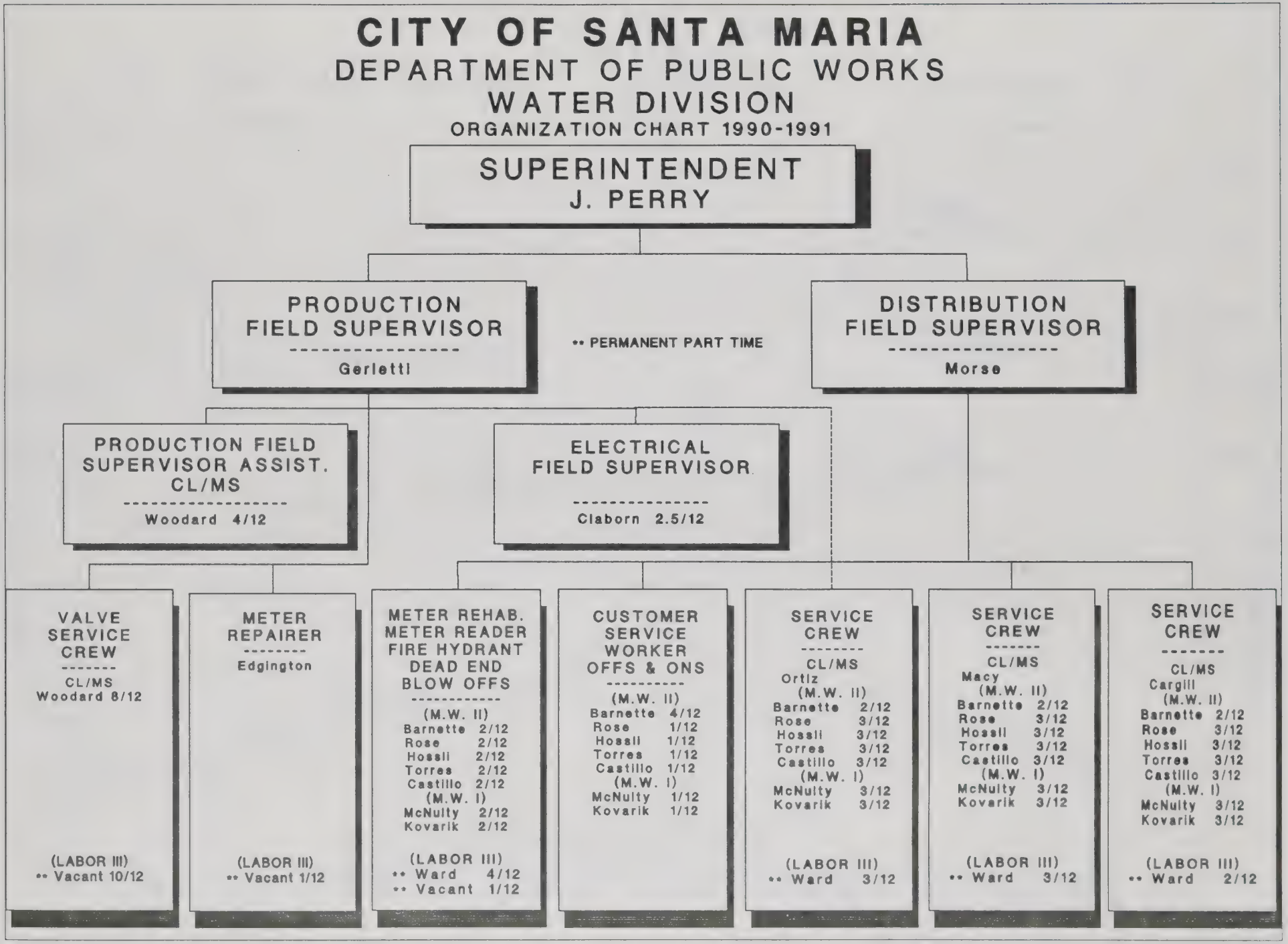
or bond service is included in the plotted cost per acre foot.

The continuation of the present level of service to the public during Fiscal Year 1990-91 used the purchase of new water meters at a cost of $56,450.

Rainfall for the 1990-91 season was 12.75 inches, as recorded by this office. The average rainfall is approximately 13.5 inches per season.

FIGURE 29

CITY OF SANTA MARIA
DEPARTMENT OF PUBLIC WORKS
WATER DIVISION
ORGANIZATION CHART 1990-1991



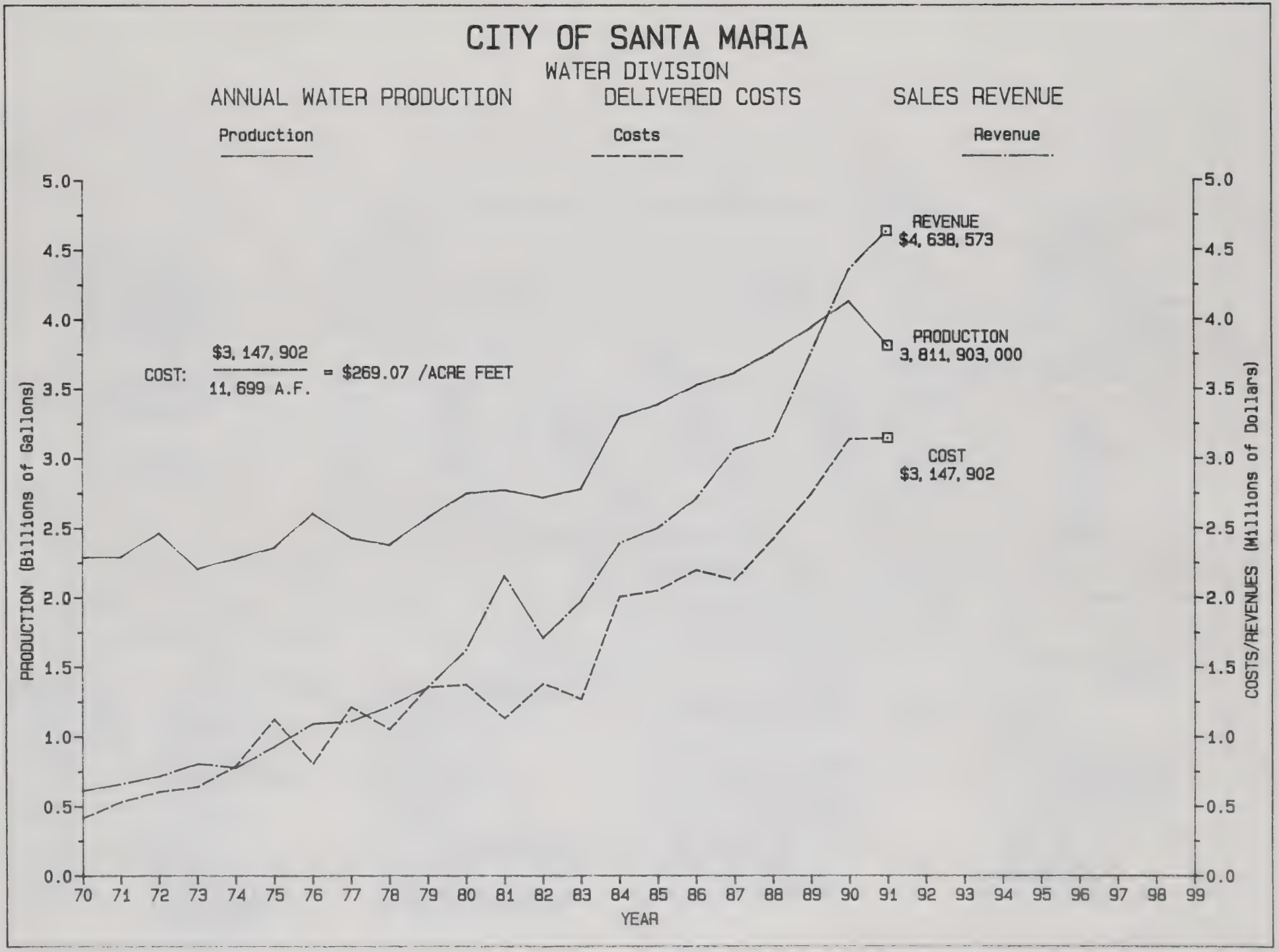

CITY OF SANTA MARIA
WATER DIVISION
ANNUAL WATER PRODUCTION
DELIVERED COSTS
SALES REVENUE
Production
Costs
Revenue
REVENUE
$4, 638, 573
PRODUCTION
3, 811, 903, 000
COST
$3, 147, 902
COST: $3, 147, 902 / 11, 699 A.F. = $269.07 /ACRE FEET
PRODUCTION (Billions of Gallons)
COSTS/REVENUES (Millions of Dollars)
YEAR
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
4.5
5.0
70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

FIGURE 30

FIGURE 31

CITY OF SANTA MARIA
WATER QUALITY MONITORING SCHEDULE

ACTIVE WELLS
5AS 09N/34W/03F10S
6S 10N/34W/34E02S
7S 10N/34W/34Q01S
8S 10N/34W/27L01S
9S 10N/34W/28J01S
10S 10N/34W/28M01S
11S 10N/34W/33A01

STANDBY WELLS (13)
3H 10N/34W/14E05S
4H 10N/34W/14E04S

INACTIVE WELLS (14)
2AS 10N/34W/34F01S
6H 10N/34W/14E06S

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	FREQ
BAC	1, 11												WKLY
GEN MIN										2, 3, 7, 11			ANNU
GEN PHY	5, 11												MONT
IN-ORG							2, 8, 11						ANNU
ORG VOC		2, 6, 7, 11			2, 7, 11			2, 7, 11			2, 7, 11		QUAR
RAD ACT		2, 7, 9, 10			2, 7, 9, 10			2, 7, 9, 10			2, 7, 9, 10		QUAR
THM			4, 12			4, 12			4, 12			4, 12	QUAR

TEST METHODS
COLIFORM 5 TUBE
MEMBRANE
COLIALERT
524.2 FULL SCAN
504.0 E.D.B.,D.B.C.P.
507.0 ATRAZINE & SIMAZINE +GLYPHOSPHATE
531.0 CARBOFURAN
505.0 CHLORDANE HEPTACHLOR, HEPTACHLOR EPOXIDE
525.0 DIETHYLHEXYLpH + HALATE
E.P.A. #900
524.2 TRIHALOMETHANE ONLY

REG.ORG. WAIVED
ENDRIN
LINDANE
METHOXYCHLOR
TOXAPHENE
2-4-D
2-4-S-TP
SILVEX
THIOBEN CALB.
MOLINATE
BENTAZON

SAMPLE SCHEDULE

1. 14 SAMP. STAT.
2. ALL ACTIVE WELLS
3. 1400 BLK. E. ALVIN
4. N. BROADWAY SAMPLE STA.
5. 4 OF 14 SAMPLE STATIONS
6. QUARTERLY EVERY THREE YEARS
7. COLLECT PRIOR TO TREATMENT
8. ANNUALLY ROTATE 3 WELLS
9. ANNUALLY ROTATE 2 WELLS
10. QUARTERLY EVERY FOUR YEARS
11. TITLE 22 ADMINISTRATIVE CODE
12. AB-1803
13. STANDBY WELLS SAMPLE WHEN ACTIVATED, ANNUALLY IF POSITIVE
14. 2 AS MAY ONLY BE USED PURSUANT TO 11/12/85 S.D.H.S. APPV'D BLENDING PROGRAM WHICH INCLUDES NECESSARY TESTS

REGULATED M.C.L.'S

*=VOC **UP TO TWO ADDITIONAL SAMPLES W/IN SEVEN DAYS FOR POSITIVE RESULTS.

BACTERIA

MULTIPLE TUBE TECHNIQUE.SHALL NOT HAVE 3 POR-TIONS OF 1 SAMP. POSITIVE.

GEN.PHYS.

	MCL
COLOR 15.	"
ODOR 3.	"
TURB. 5.	"

TRIHALO.

TOTAL T.H.M. 100 UG/L

GEN. MIN. ANAL.

	MCL
BICARBONATE N/L	"
CARBONATE N/L	"
HYDROXIDE ALKALINITY N/L	"
CALCIUM N/L	"
CHLORIDE 500 MG/L	"
COPPER 1000 UG/L	"
FOAMING AGENTS (MBAS) .5 MG/L	"
IRON .3	"
MAGNESIUM N/L	"
MANGANESE .05	"
PH.	"
SODIUM N/L	"
SULFATE 500 MG/L	"
SPECIFIC CONDUCTANCE 1600	"
T.D.S. 1000	"
TOTAL HARDNESS 200	"
ZINC 5000 UG/L	"
LANGELIER INDEX	"

INORGANICS

	MCL/MgL
ARSENIC .05	"
BARIUM 1.0	"
CADIUM .010	"
CHROMIUM .05	"
LEAD .05	"
MERCURY .002	"
NITR.(NO3) 45.	"
SELENIUM .01	"
SILVER .05	"
ALUMINUM 1.	"
COPPER 1.	"

RADIOACTIVITY

GROSS ALPHA COMB.5.pCi/L MAX.
GROSS BETA 50 pCi/L MAX.
URANIUM 20pCi/L MAX.*
**GROSS ALPHA MAY BE SUB-STITUTED IF LESS THAN 5pCi/L

ORGANICS

	MCL/MgL
ETHYLENE DIBROMIDE (EDB) .00002	MCL/
* 1,1,1-TRICHLORETHANE .2	MgL
* 1,1 DICHLOROETHYLENE .006	"
* BENZENE .001	"
* XYLENES (SINGLE SUM OF ISOMERS)	"
* MONOCHLOROBENZENE .030	"
* ETHYLBENZENE .680	"
* 1,3- DICHLOROPROPENE .0005	"
* 1,1,2,2- TETRACHLOROETHANE .001	"
* TETRACHLOROETHYLENE(PCE) .005	"
* 1,2- DICHLOROETHANE .0005	"
* VINYL CHLORIDE .0005	"
* CARBON TETRACHLORIDE .0005	"
* 1,4-DICHLOROBENZENE .005	"
* 1,1,2- TRICHLOROETHANE .032	"
THIOBEN CARB .07	

ORGANICS

	MCL/MgL
MOLINATE .02	"
BENTAZON .018	"
ATRAZINE .003	"
SIMAZINE .01	"
*CIS-1,2-DICHLOROETHYLENE TBD	
*TRANS-1'2-DICHLOROETHYLENE TBD	
*1,1 DICHLOROETHANE TBD	
*1,2 DICHLOROPROPANE TBD	
*TRICHLOROFLOROMETHANE TBD	
*1,1,2 TRICHLORO-1,2,2-TRIFLUOROETHANE (FREON 113)TBD	
CARBOFURAN TBD	
GLYPHOSATE TBD	
CHLORDANE TBD	
HEPTACHLOR TBD	
HEPTACHLOR EPOXIDE TBD	
DIETHYLHEXYLPHTHALATE TBD	

REVISED BY: EPL/JCW 01/06/92

DRAWN BY: G. FRANCE 06/01/89

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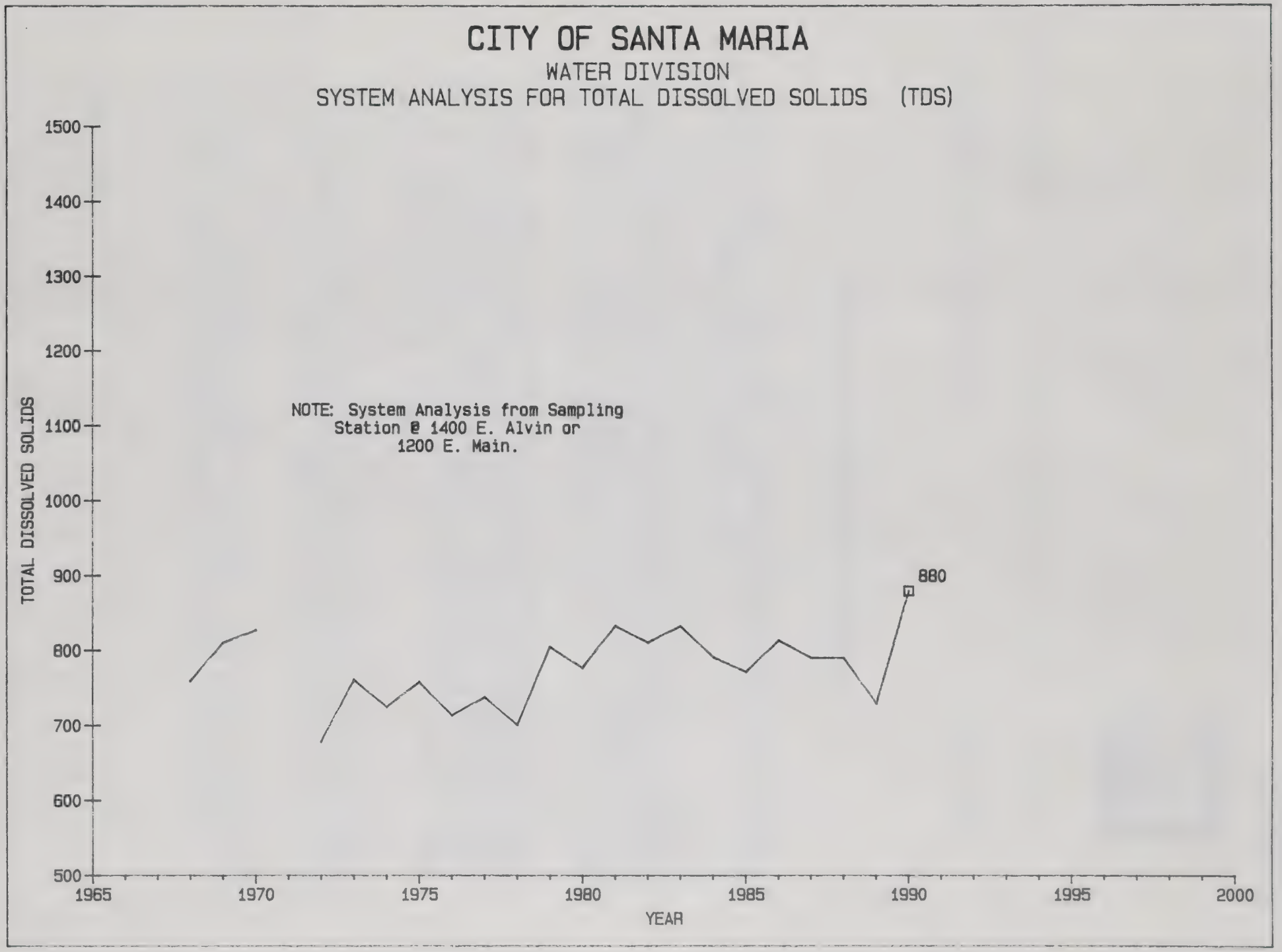
CITY OF SANTA MARIA
WATER DIVISION
SYSTEM ANALYSIS FOR TOTAL DISSOLVED SOLIDS (TDS)
NOTE: System Analysis from Sampling Station @ 1400 E. Alvin or 1200 E. Main.
TOTAL DISSOLVED SOLIDS
1500
1400
1300
1200
1100
1000
900
800
700
600
500
880
1965
1970
1975
1980
1985
1990
1995
2000
YEAR

FIGURE 32

EXHIBIT A

City of Santa Maria 110 EAST COOK STREET SANTA MARIA, CALIFORNIA 93454-5190 805-925-0951

Department of Public Works

April 1991

ANNUAL WATER QUALITY REPORT

A requirement of the State of California Department of Health Services states that all water purveyors must inform their customers of the quality of their water.

The drinking water being served to customers of the City of Santa Maria undergoes careful analysis by an independent certified laboratory on a regular basis to insure continuing compliance with all State and Federal standards. All water received by the customers of the City of Santa Maria meets or exceeds all current Safe Drinking Water Act regulations.

Our City presently has only one source of water supply, groundwater produced from City wells. The attached table lists many parameters for which our water source is analyzed, their reporting units, maximum contaminant level and range. Many of the numeric values are given in milligrams per liter (parts/million). To give a better appreciation of what a part in a million really means, consider one cent in $10,000!

The City of Santa Maria is committed to providing its customers with the safest, highest quality of water possible. As a customer, you can help and do your part by using water wisely; it is our most precious natural resource! For water conservation tips, see reverse side.

If there are any questions about the report, or if you need advice relating to water conservation, please call the Water Division of the City's Public Works Department at 925-0951, extension 221.

ANNQUAL.kpc

CITY OF SANTA MARIA
ANNUAL WATER QUALITY REPORT-1990

PRIMARY STANDARDS - Mandatory Health-Related Standards Established by the State of California, Department of Health Services

PARAMETER	UNITS	MAXIMUM CONTAMINANT LEVEL	GROUNDWATER RANGE
CLARITY			
Turbidity	NTU	0.5	.10-.19
MICROBIOLOGICAL			
Coliform Bacteria	% Tests Positive	10 %	0.0 %
ORGANIC CHEMICALS			
Total Trihalomethanes	mg/l	0.10	N.D.-.0056
Endrin	mg/l	0.0002	N.R.
Lindane	mg/l	0.004	N.R.
Methoxychlor	mg/l	0.1	N.R.
Toxaphene	mg/l	0.005	N.R.
2,4-D	mg/l	0.1	N.R.
2,4,5-TP Silvex	mg/l	0.01	N.R.
Atrazine	mg/l	0.003	N.D.
Bentazon	mg/l	0.018	N.R.
Benzene	mg/l	0.001	N.D.
Carbon Tetrachloride	mg/l	0.0005	N.D.
1,2-Dibromo-3-chloropropane	mg/l	0.0002	N.R.
1,4-Dichlorobenzene	mg/l	0.005	N.D.
1,2-Dichlorothane	mg/l	0.0005	N.D.
1,1-Dichloroethylene	mg/l	0.006	N.D.
1,3-Dichloropropene	mg/l	0.0005	N.D.
Ethylbenzene	mg/l	0.680	N.D.
Ethylene Dibromide	mg/l	0.00002	N.D.
Molinate	mg/l	0.02	N.R.
Monochlorobenzene	mg/l	0.03	N.D.
Simazine	mg/l	0.01	N.D.
1,1,2,2-Tetrachloroethane	mg/l	0.001	N.D.
Tetrachloroethylene	mg/l	0.005	N.D.
Thiobencarb	mg/l	0.07	N.R.
1,1,1-Trichloroethane	mg/l	0.2	N.D.
1,1,2-Trichlorothane	mg/l	0.032	N.D.
Trichloroethylene	mg/l	0.005	N.D.
Vinyl Chloride	mg/l	0.0005	N.D.
Xylenes	mg/l	1.750	N.D.
Cis-1,2-Dichloroethylene	mg/l	0.006 *	N.D.
Trans-1,2-Dichloroethylene	mg/l	0.01 *	N.D.
1,1-Dichloroethane	mg/l	0.005 *	N.D.
1,2-Dichloropropane	mg/l	0.005 *	N.D.
Trichlorofluoromethane (Freon 11)	mg/l	0.15 *	N.D.
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon 113)	mg/l	1.2 *	N.D.
Carbofuran	mg/l	0.018 *	N.D.
Glyphosate	mg/l	0.7 *	N.D.
Chlordane	mg/l	0.00001 *	N.D.
Heptachlor	mg/l	0.00001 *	N.D.
Heptachlor epoxide	mg/l	0.00001 *	N.D.
Di(2-ethylhexyl)phthalate	mg/l	0.004 *	N.D.

EXHIBIT A

PARAMETER	UNITS	MAXIMUM CONTAMINANT LEVEL	GROUNDWATER RANGE
INORGANIC CHEMICALS			
Aluminum	mg/l	1.	0.005
Arsenic	mg/l	0.05	0.005
Barium	mg/l	1.	0.1-0.2
Cadmium	mg/l	0.01	0.001
Chromium	mg/l	0.05	0.005
Fluoride	mg/l	1.4-2.4 **	0.2-1.0
Lead	mg/l	0.05	0.005
Mercury	mg/l	0.002	0.0002
Nitrate (as NO3)	mg/l	45.	2.7-13.0
Selenium	mg/l	0.01	0.005
Silver	mg/l	0.05	0.005
RADIOACTIVITY			
Gross Alpha Activity	pCi/l	15	0.0-2.02
Gross Beta Activity	pCi/l	50	N.R.
Tritium	pCi/l	20,000	N.R.
Strontium-90	pCi/l	8	N.R.
Radium 226 & 228 combined	pCi/l	5	N.R.
Uranium	pCi/l	20	N.R.
SECONDARY STANDARDS - Aesthetic Standards Established by the State of California, Department of Health Services.			
Color	Units	15	5
Odor-Threshold	Units	3	1
Chloride	mg/l	500	26-73
Copper	mg/l	1.0	.05-.2
Foaming Agents (MBAS)	mg/l	0.5	0.02
Iron	mg/l	0.3	.05-.24
Manganese	mg/l	0.05	0.02
Sulfate	mg/l	500	210-420
Zinc	mg/l	5.0	.05-.1
Total Dissolved Solids	mg/l	1000	590-1200
ADDITIONAL CONSTITUENTS ANALYZED			
pH	Units	No Standard	7.4-7.8
Hardness (CaCO3)	(mg/l)	" "	350-680
Sodium	(mg/l)	" "	45-67
Calcium	(mg/l)	" "	79-140
Potassium	(mg/l)	" "	3-7
Magnesium	(mg/l)	" "	38-73

mg/l = milligrams per liter (parts per million)
pCi/l = pico Curies per liter
NTU = Nephelometric Turbidity Unit - value measuring the degree of cloudiness due to suspended particles.
* **Proposed Maximum Contaminant Level** - has not been adopted.
** Fluoride Standard depends on temperature.
In addition to the above constituents, we have conducted monitoring for 37 additional organic chemicals for which the California Department of Health Services and USEPA have not yet set a standard and all results were below detection levels unless otherwise noted.
N.D. not detected.
N.R. not required.

City of Santa Maria
Water Department
110 E. Cook Street
Santa Maria, Ca. 93454-5190
(805) 925-0951 Ext. 223

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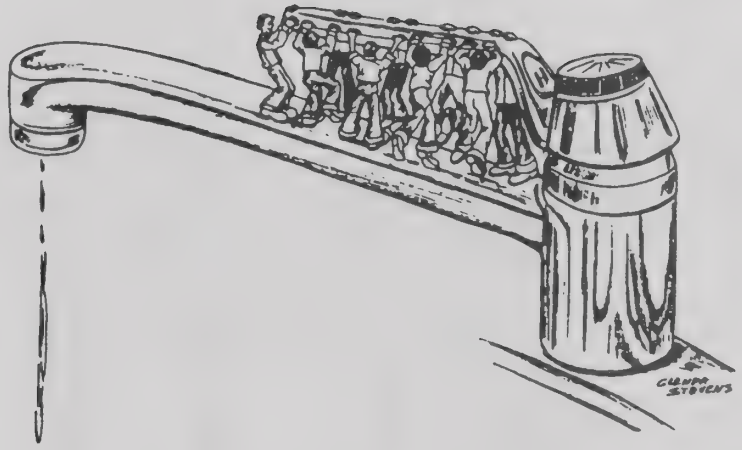

AS YOU KNOW, THIS IS A TIGHT YEAR FOR WATER SUPPLIES IN MANY CALIFORNIA CITIES. A SEVERE DROUGHT PROBLEM EXISTS IN MUCH OF SANTA BARBARA COUNTY. ALTHOUGH SANTA MARIA IS NOT IN THE SAME CRUCIAL SITUATION IT IS PRUDENT THAT WE DO WHAT WE CAN DO TO CONSERVE WATER.

WE HAVE LEARNED THAT WATER IS A LIMITED RESOURCE AND MUST BE USED WISELY. WE MUST EXAMINE OUR USES OF WATER AND ELIMINATE THOSE WHICH ARE WASTEFUL. THE ONLY WAY THE CITY OF SANTA MARIA WILL BE SUCCESSFUL IN THIS EFFORT IS IF EACH OF US, INDIVIDUALLY, BECOMES RESPONSIBLE FOR OUR WATER CONSUMPTION. IF WE ARE NOT SUCCESSFUL, RESTRICTIONS ON WATER USE MAY HAVE TO BE CONSIDERED.

WITH THIS IN MIND, THE CITY OF SANTA MARIA BRINGS YOU THE FOLLOWING WATER CONSERVATION TIPS.

1) CLOSELY MONITOR LANDSCAPE IRRIGATION. WATER VEGETATION EARLY IN THE MORNING (4 A.M. - 6 A.M.). A GOOD RULE OF THUMB GUIDELINE FOR WATERING TURF IN SANDY SOILS IS 10 - 15 MINUTES DURATION 3 TIMES A WEEK.
2) PUT SEVERAL DROPS OF FOOD COLORING DYE IN YOUR TOILET TANK TO CHECK FOR LEAKS. IF THE DYE BLEEDS INTO YOUR TOILET BOWL THE LEAK CAN BE EASILY REPAIRED BY REPLACING THE FLAPPER VALVE OR BY ADJUSTING THE FLOAT. THIS TYPE OF LEAK MAY NOT BE APPARENT BUT CAN WASTE A TREMENDOUS AMOUNT OF WATER.
3) ADOPT A WATER CONSERVATION ETHIC FOR EVERYDAY USE.

WE HOPE YOU WILL USE THESE SUGGESTIONS AS SOON AS POSSIBLE. PLEASE JOIN WITH THE CITY OF SANTA MARIA IN MAKING THIS EFFORT A SUCCESS.

THANK YOU FOR YOUR TIME AND INTEREST.
THE CITY OF SANTA MARIA

APPENDIX A
FINANCIAL INFORMATION
1990-91

FISCAL YEAR EXPENDITURES

FUNCTION	OVERHEAD	OPERATIONS	CAPITAL OUTLAY	BOND SERVICE	FUND SOURCE(S)	
ADMINISTRATION		$ 385,496	$ -0-		General Water Refuse-Collection Refuse-Disposal Sewer	246,941 44,967 35,251 35,452 22,885
BUILDINGS		$ 526,410	$ 1,407		General Water Refuse-Collection Refuse-Disposal Sewer	318,227 68,021 53,324 53,627 43,557
ENGINEERING		$ 803,958	$ 2,560		General Water Refuse-Collection Refuse-Disposal Sewer Gas Tax	535,307 85,586 67,093 67,475 43,557 7,500
STREETS		$ 1,841,399	$ 1,165,421		General Gas Tax/TDA	1,793,141 1,213,679
SEWERS		$ 243,976	$ 83,428		Sewer	327,404
WASTEWATER	$ 250,340	$ 1,022,745	$ 639,934		Sewer	1,913,019
SOLID - Collection/Res. WASTE - Collection/Com. - Disposal - Street Sweeping	$ 229,920 $ 161,430 $ 309,300 $ -0-	$ 1,281,828 $ 737,466 $ 1,674,297 $ 225,361	$ -0- $ 36,043 $ 512,522 $ -0-		Refuse-Collection Refuse-Disposal Refuse-Disposal Street Sweeping	1,504,748 934,939 2,496,119 225,361
DRAINAGE		$ 47,575	$ 402		General	47,977
WATER	$ 522,950	$ 2,278,703	$ 673,148		Water	3,474,801
MECHANICAL MAINTENANCE		$ 1,729,924	$ 825,361		Equipment	2,555,285
PARKING DISTRICT		$ 7,464			District	7,464
STOWELL CENTER		$ 11,597			Maintenance District	11,597
PARKING AUTHORITY		$ 300,488		$ 2,680,324	General	2,980,812
SMAT		$ 795,478	$ 52,061		Trans. Development Act UMTA Fares	376,781 338,937 131,821

NOTE: The above information should not be used as final audit figures but are reasonable accurate for the purpose of this summary.

(D) Depreciation

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